KOCOM-DVR USER'S MANUAL

KRYPTO
SECURITY

Table of Contents

Chapter 1.	About KOCOM DVR	
	1.1 Introdcution ----------	6
	1.2 Features ----------	7
	1.3 Important Notes ----------	8
Chapter 2.	KOCOM DVR Unit	
	2.1 Unpacking KOCOM DVR Unit ----------	10
	2.2 Front View of KOCOM DVR ----------	10
	2.3 Rear View of KOCOM DVR ----------	11
	2.4 Connecting Sensor And Alarm ----------	12
	2.5 Connecting Pan/Tilt ----------	13
Chapter 3.	Live Mode	
	3.1 Live Mode ----------	16
	3.2 Selecting On Screen Divison Mode ----------	17
	3.3 Pan/Tilt/Zoom Operation ----------	17
	3.4 Screen Movement ----------	18
	3.5 Camera/Alarm-Out/TV-Out Selector ----------	19
Chapter 4.	Search Mode	
	4.1 Search Mode ----------	22
	4.2 Search Mode Option Menu ----------	23
	4.3 Print Images ----------	24
	4.4 Save Images To BMP or JPG ----------	25
	4.5 Selecting On Screen Division Button ----------	26
Chapter 5	Setup Mode	
	5.1 Setup Mode ----------	28
	5.2 System Setup ----------	28
	5.2.1 Recording & Backup Drive Setup ----------	29
	5.2.2 User Registration ----------	30
	5.2.3 Rebooting Setup ----------	31
	5.3 Camera Setup ----------	32
	5.3.1 Setting General Camera Properties ----------	33
	5.3.2 Setting Motion & Color Properties ----------	34
	5.3.3 Setting Pan/Tilt ----------	35
	5.4 Schedule Setup ----------	36
	5.5 DI Schedule ----------	39
	5.6 Network Setup ----------	40
	5.7 Control Setup ----------	41
	5.8 Backup Setup ----------	43

Chapter 1
About KOCOM DVR

1.1 Introduction

KOCOM DVR is a computerized system that performs displaying, recording and retrieving the analog data from CCTV onto personal computer. As it admixes advanced hardware technology and innovative software, it carries out security taKOCOMs with high performance and maximized system stablility.

KOCOM DVR can accept up to 32 cameras on frame rate up to 480/240fps depending on model type. As KOCOM DVR adopts high compression algorithm, it maximizes storage capability and creates less network distruption. It can create high-quality and noise-reduced images which never lose original quality or degrade over time comparing with the analog recorders of the past.

KOCOM DVR also allows multiple users to access local DVR through any network connection for instant live viewing and remote search.

1.2 Features

- Max. 32-Ch camera inputs
- Display speed at max. 480fps / Recording speed at max. 240fps
- Provides Mpeg4 and Mjpeg compression algorithm
- High resolution at 640x480
- Max. 8-Ch audio recording (Optional)
- Various alert modes upon various events
- Pan/Tilt/Zoom control on both server and client side
- 6-level of security access
- Digital watermark support
- Dynamic IP support
- Multiple and simultaneous remote connections
- Allows access from Windows CE installed PDA through mobile internet
- High performance, durable rackmount case

1.3 Important Notes

Before Operating KOCOM Server Program

1) Recycle Bin Setup

Check on the box “Do not move files to the Recycle Bin. Remove files immediately when deleted.” in the property of Recycle Bin.

2) Display Setup

- Set resolution at 1024x768 and High Color 16bit.
- Set “System Standby”, “Turn off monitor” and “Turn off hard diKOCOM” at “Never” in Display Properties\Power Management Properties\Power Schemes.

3) Rebooting Setup

We highly recommend you to set automatic daily rebooting in idle time for most stable system operation.

4) Operating System

As KOCOM Software was bulit on Windows 2000 platform, it operates most stable on Windows 2000 platform.

5) DirectX

DirectX Verison 8.1b or above

Chapter 2
KOCOM DVR Unit

2.1 Unpacking KOCOM DVR Unit

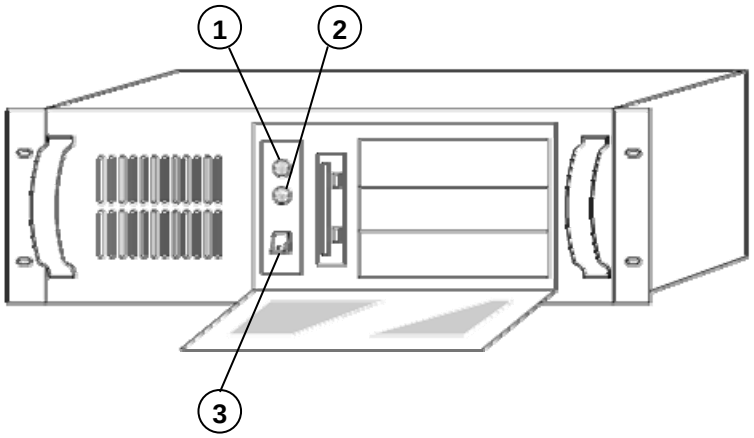
Remove KOCOM DVR Unit from the package.

Make sure that the following contents are included in the package before beginning the installation procedure.

Included contents are ;

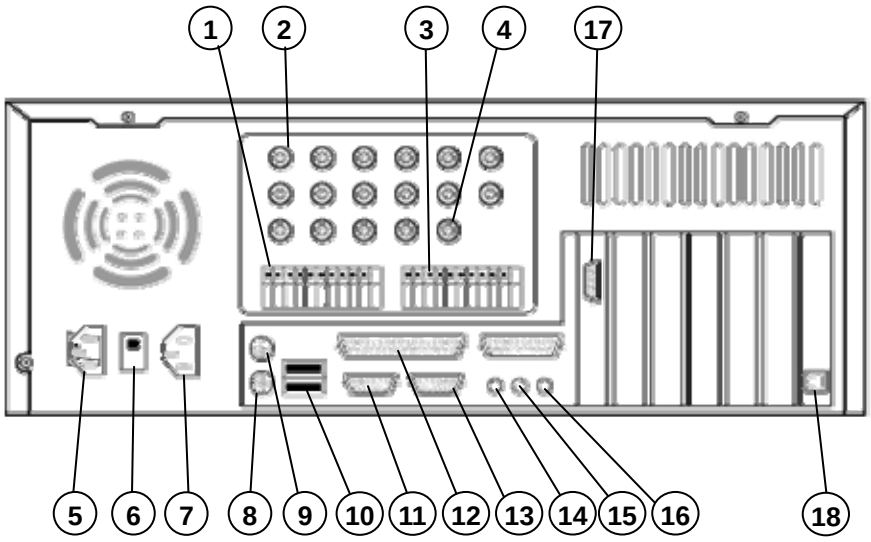
1. Mouse
2. Keyboard
3.KOCOM Software CD-Rom
4. KOCOM DVR Unit
5. Manual
6. Power Cord

2.2 Front View of KOCOM DVR



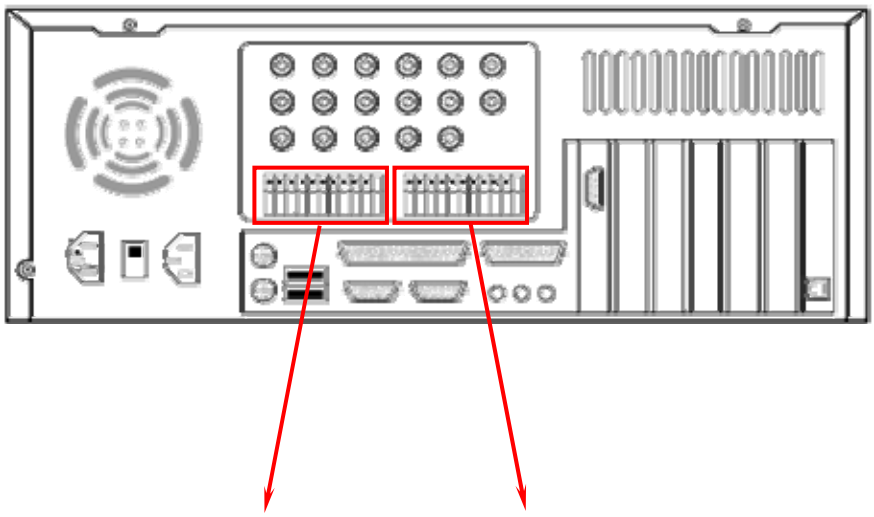
1. Power LED : Green light turns on when switching on.
2. HDD LED : Red light turns on when hard diKOCOM runs
3. Power switch

2.3 Rear View of KOCOM DVR

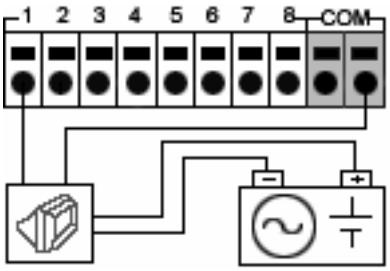


1. Sensor Input (8 Input Ports)
2. Camera Input (Ch1 ~ Ch16)
3. Alarm Output (5 Output Ports)
4. TV Out Port
5. AC Power Socket (Power In)
6. AC Power VAC Switch
   (DIP Switch for 110/240 VAC)
7. AC Power Socket (Power Out)
8. PS2 Socket (Keyboard)
9. PS2 Socket (Mouse)
10. USB Port
11. COM1 Connector
    (For PTZ device)
12. Print Connector
13. COM2 Connector
14. Line-out Connector
15. Line-in Connector
16. Mic Connector
17. Monitor Connector
18 Lan Connection Port

2.4 Connecting Sensor And Alarm



[Sensor Input Terminal]



1. Connection

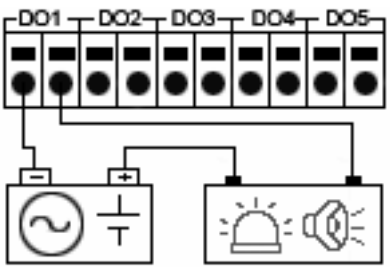
Connect one signal lineto COM port and connect Another signal line to the desired sensor number.

2. Operation

- Normal : 1-8 Terminal & COM Port Open
- Sensor Detection : 1-8 Terminal & COM Port Close

3. At normal close mode, it works reversely.

[Alarm Output Terminal]



1. Connection

Connect both power lines to DO terminal

2. Operation

- Normal : DO Terminal Open
- Control Output : DO Terminal Close

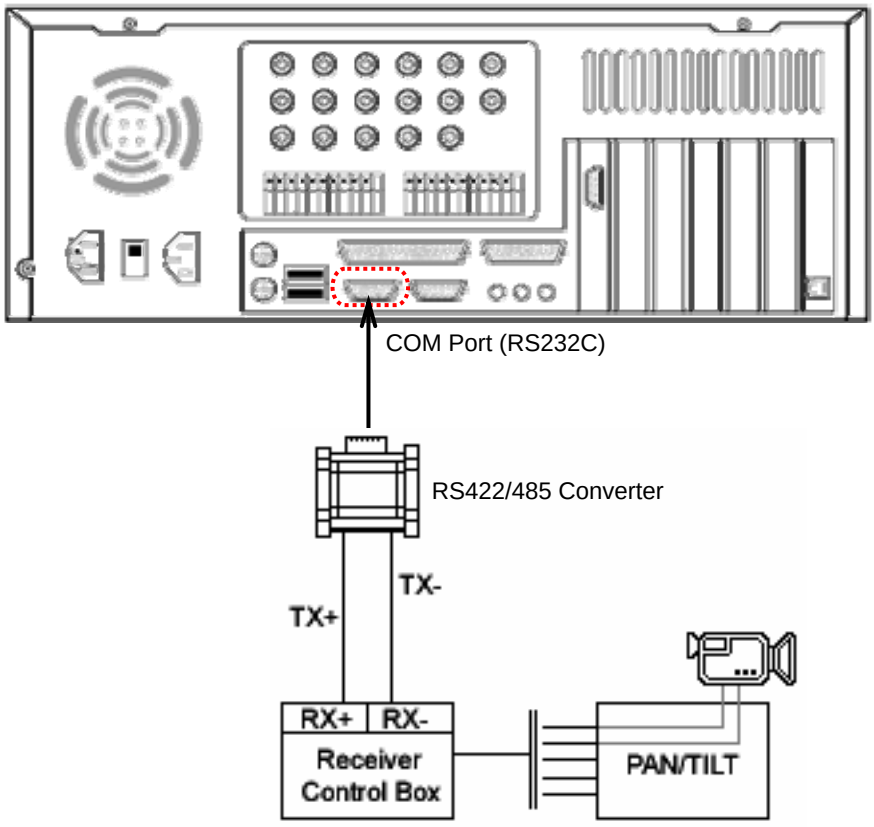
3 D/O Voltage

.DC 30V, 1A or below

.DC 110V, 0.3A or below

.AC 125V, 500mA or below

2.5 Connecting Pan/Tilt



Chapter 3
Live Mode

3.1 Live Mode

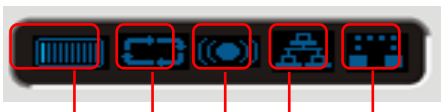
After running KOCOM-DVR program, the below GUI immediately executes. It displays the real-time images coming from the attached cameras and contains functional buttons for switching to other setup modes.

Panel

Screen Division
Select Button

Voice
Commnication

For Camera Select Panel
For Alarm Panel
For TV-Out Select Panel



HDD Space Indicator
Auto Switching Mode Indicator
Event Detect Indicator
Client Connection Indicator
Backup Indicator

3.2 Selecting On Screen Division Button

Place the cursor on the right end of main GUI to display screen division select button.

1 (Displays one channel. You can select the channel on camera

4-Split

6-Split

7-Split

9-Split

10-Split

10-Split

13-Split

13-Split

16-Split

22-Split

25-Split

30-Split

36-Split

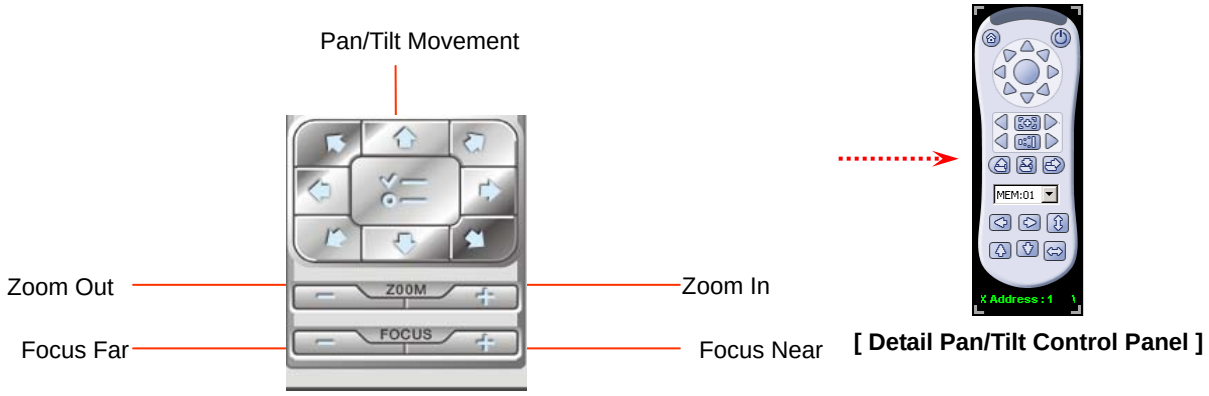
Full Screen Mode (Hides all buttons and displays only video. **To return right-mouse click**)

Auto Switching Mode (Selected split screen will be switched in sequential order)

Reset Screen (Return to default screen arrangement in case of moving screen to another location by drag-and-drop)

3.3 Pan/Tilt/Zoom Operation

Place the cursor on the center of button of main GUI to display Pan/Tilt/Zoom control pad.



[Detail Pan/Tilt Control Panel]

- **If Pan/Tilt is connected the camera, Pan/Tilt icon will be shown on the camera view.**
- **The Detail Pan/Tilt Control Panel appears differently depending on Pan/Tilt type.**

3.4 Screen Movement

You can freely change the location of each screen by drag-and-drop on display screen.

1. Select the screen which you want to move to another location.

CAM01	CAM02	CAM03	CAM04
CAM05	CAM06	CAM07	CAM08
CAM09	CAM10	CAM11	CAM12
CAM13	CAM14	CAM15	CAM16

Click

☛ **Applicable on KDB 050050S to 240240S models**

2. Drag the screen to the location that you want to move to.

CAM01	CAM02	CAM03	CAM04
CAM05		CAM07	CAM08
CAM09	CAM10	CAM11	CAM12
CAM13	CAM14	CAM15	

CAM16

Drag-

3. Drop the screen to the location where you move to.

CAM16	CAM02	CAM03	CAM04
CAM05	CAM06	CAM07	CAM08
CAM09	CAM10	CAM11	CAM12
CAM13	CAM14	CAM15	CAM01

Drop

You can return back to default status clicking reset button on screen division select button.

3.5 Camera/Alarm-Out/TV-Out Panel

1. Camera Select Panel

On each split mode of screen, clicking one channel button will show the split mode including the channel clicked.
(ex : If on 4 split mode with 16 ch inputs, clicking no. 1 channel will display no.1 to 4 ch and clicking no. 5 will be no.5 to 8 ch.)
In case of over 16 cameras connected, you can switch from no.1 to 16 to no.17 to 32 by clicking the arrow button on the right.

2. Alarm Panel

Shows alarms connected. Clicking each alarm no. will send alarm out.

3. TV-Out Panel

Shows the current channels viewed from TV monitor.

- **Applicable on KDB 050050S/4CH to 240240S/16CH models**
- **Only the channel checked on "Enable AV-Out" in Camera Setup Mode will be displayed through TV monitor.**

Chapter 4
Search Mode

4. Instant Replay

This function enables the playback on one channel selected for the recent time selected while on live mode.

1. Click the camera view that you want to play.
2. Press Instant Replay Button.
3. Then playback for the selected channel will be run in pop-up window on live mode as shown below.
4. To change the previous time of reply (1 to 60min), select from pull-down menu. The change will effect from next run.

☛ **To view the video in other time, stop playing and select the time in the below list. And press play button again.**

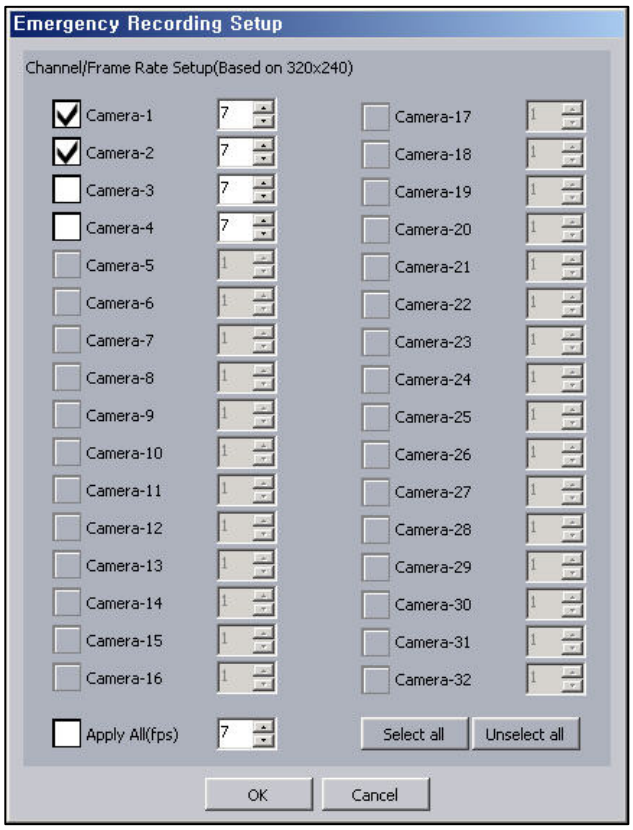
☛ **Previous time for instant reply can be set from Previous Time Selection Bar. The setup will effect when next instant reply run.**

4-2 Emergency Recording

This function enables the current recording mode to switch to continuous recording and higher frame rate recording while the button is pressed in the emergent case.

1. Emergency Recording Setup should be done first..

2. You can enter the Setup by moving to “Recording Schedule Setup\Emergency Recording Setup” or right-mouse-clicking on Emergency Recording Button. Check on video channels to run emergency recording on and set emergency frame rate each. Or if you want to apply the same frame rate to whole channels, check on “Apply All(fps)”, then set frame rate.



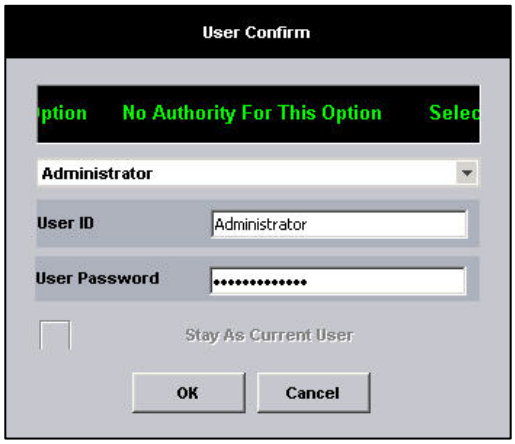
3. While in emergency recording mode, the recording will be by the frame rate set from “Emergency Recording Setup” contiously. For stopping emergency recording, press the button again.

4-3 Password Lock

This function switches to password protection mode after the button is pressed.

1. Press Password Lock Button once. Whole function modes will require password input afterward.

2. In order to enter ID and PW when KOCOMed for. One default ID (Administrator, Manager and General) can be chosen from the pull-down list. Or you can write your own ID registered on User Registration Menu.



3. To be released from Password Lock Mode, press the button once again and complete ID and PW confirmation.

4.4 Manual Back-up

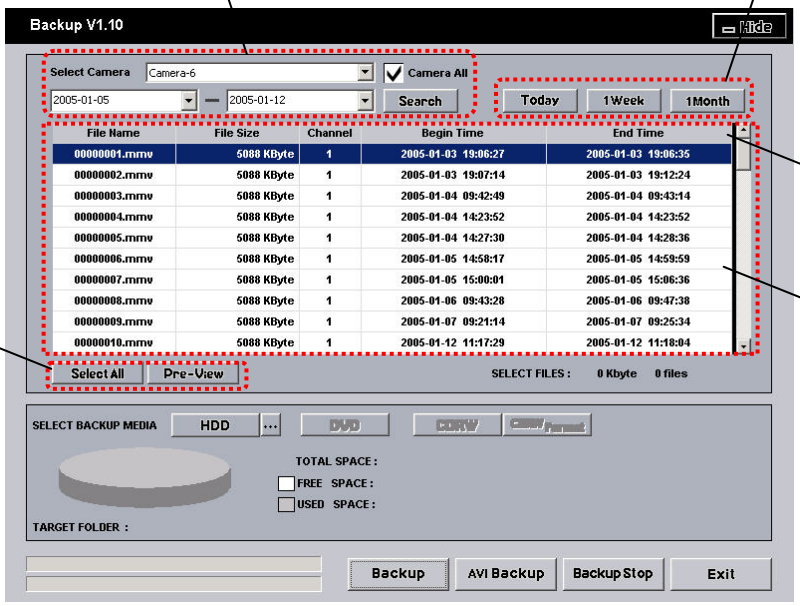
This function is for manual backup to the specified folder in local hard drive, CD-RW, DVD Writer or CD-Rom.

1. Simply press Manual Back-up Button.

2. Then the below backup program will run. Select the recording files to back up after search.

Specify the period / video channles with recordings and click search

Automatic search period select

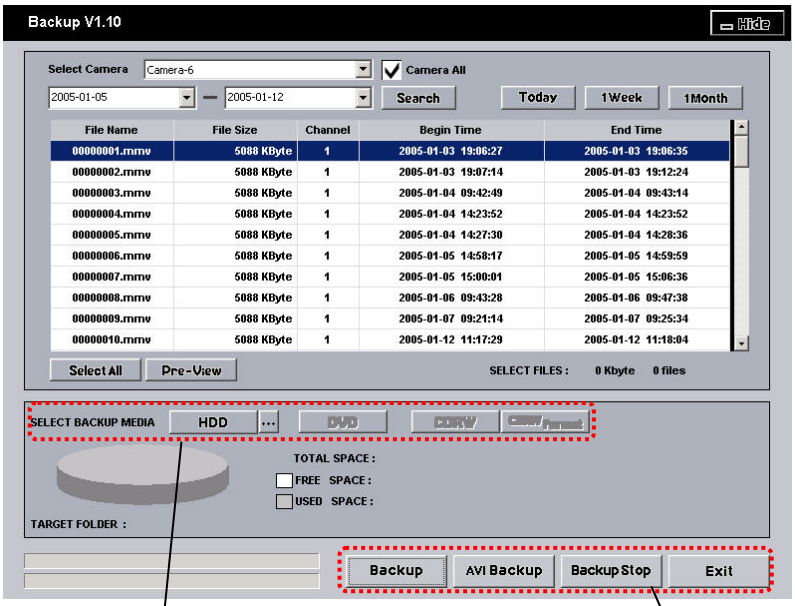


To select all files to press Select All
To view file, press Preview

Click each title in order to sort files by subject.

Shows recording files after search. Select the files to back up.

3. Select backup location as below.



Specify the folder in local or network hard to back up recording files. If DVR or CDRW is installed, press DVD or CDRW.

Back : start backup procedure
AVI Backup : back up selected files to AVI format
Backup Stop : stop backup procedure
Exit : exit from Backup Menu

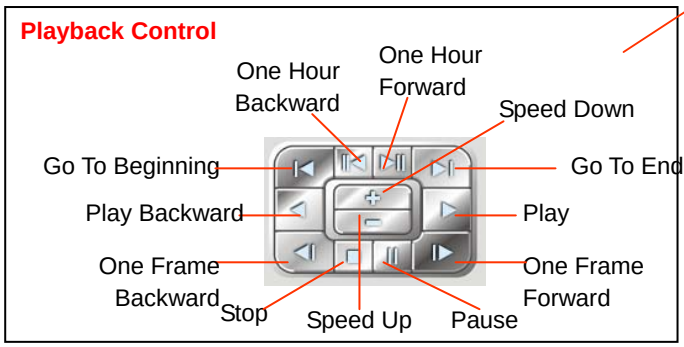
☞ **Concerning backup method to DVD or CD-RW, refer to the CD-RW backup manual provided seperately.**

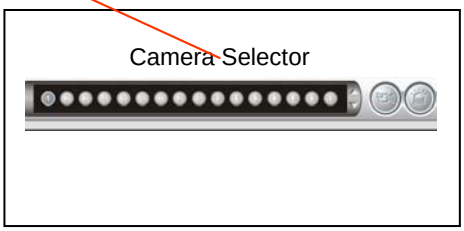
☞ **To view backup recording files, use DVRPlayer.exe from C:\KOCOM-DVR\Tools. See page 58 to know the usage.**

You can also use separate player installation version to play back-up files from other PC without DVR program.

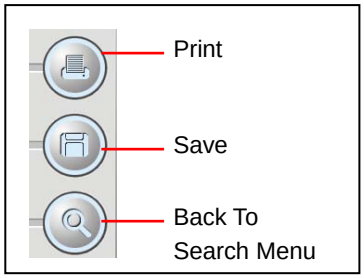
4.5 Search Mode

By clicking search mode button, you shift from display mode to search mode where you can playback the recording images. ※ **Default is no image with 4-split mode. Click play button and select your desirous split mode.**





Detail A



4.6 Search Mode Option Menu

By clicking search mode button, you can shift from display mode to search mode where you can playback the recording images.

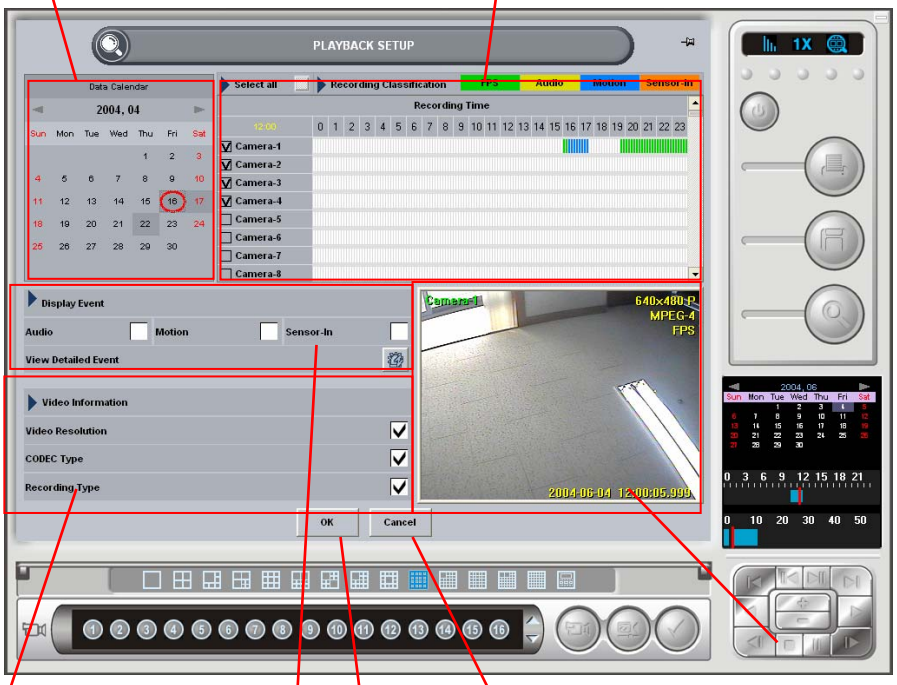
Then playback setup will be displayed ;

1. Date Selection Menu

The date having recording is displayed colored. Click the date that you want to search from.

2. Search Time

The time having recording is displayed colored(FPS:Green, Motion:Blue, Alarm-In:Orange). Move the red bar to the time that you want to play.



5. Video Information

Check on each to displayed resoultion, codec type or recording type on recording images.

3. OK

Click to play selected images.

7. Cancel

6. Preview Window

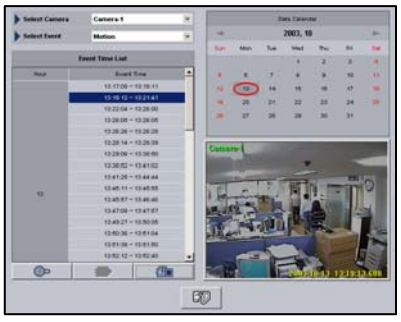
Displays the preview images of recordings.

In order to view preview from the camera of specific time, click on the corresponding time on camera line.

4. Display Event

Click each on Motion or Sensor-in Option to display only event recording footages.

Click the button next to View Detailed Event. Then event viewer will run.



Event Viewer

4.7 Print Images

To print the images being displayed, simply press PRINT button. Double-click each image to select the images to print. Set printing options as you like. Then click PRINT utton.

`

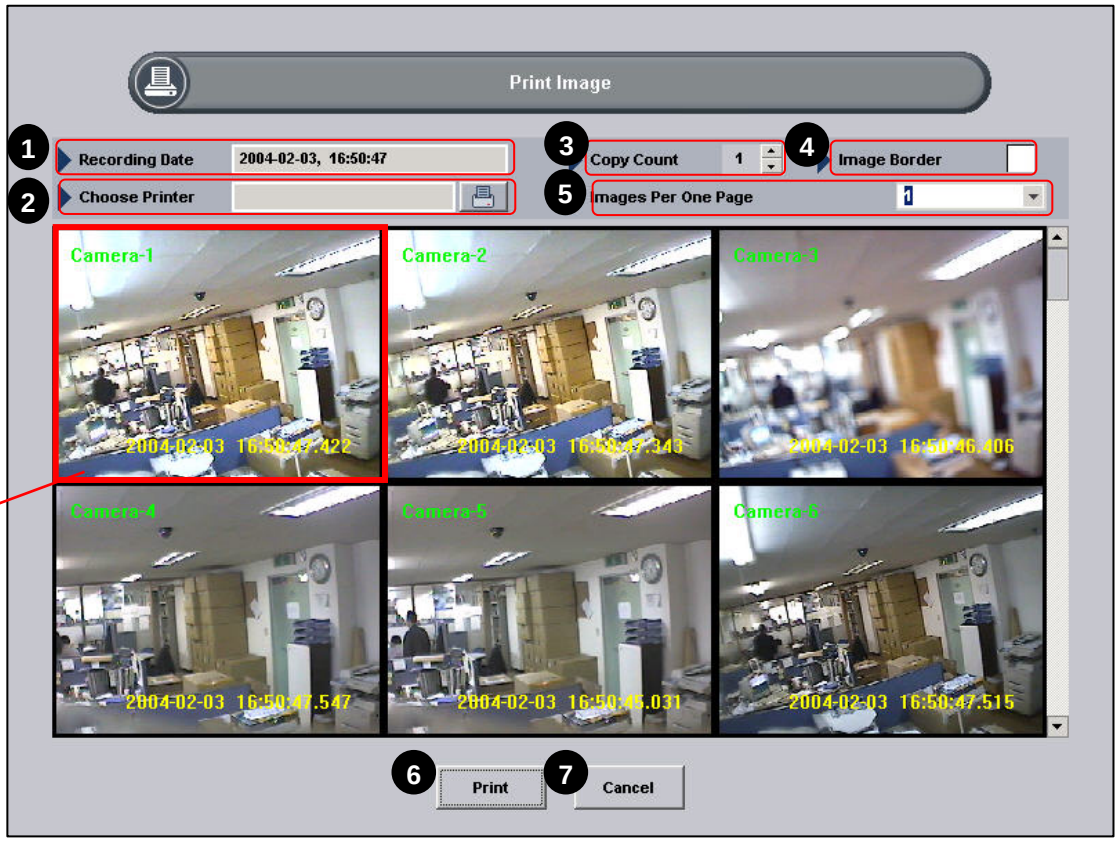
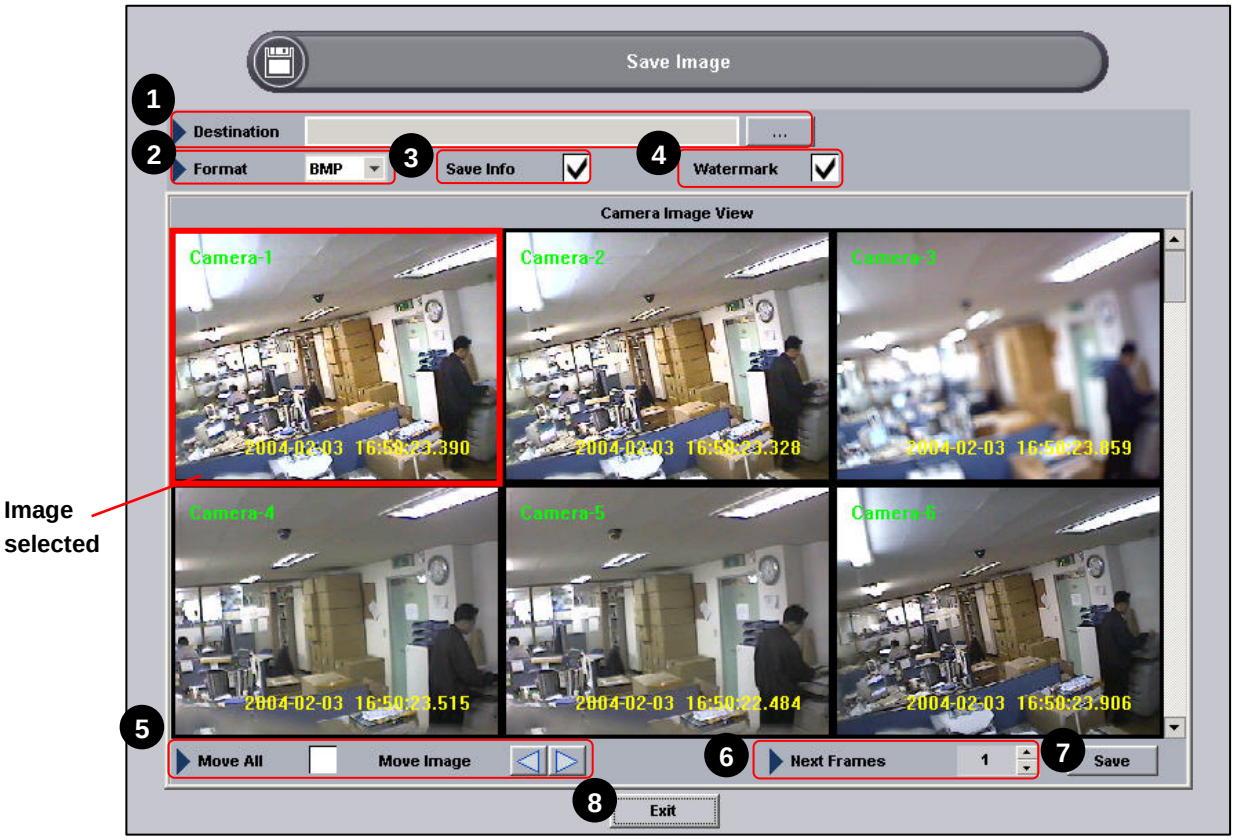


Image selected

1. Recording date : shows the date and time of recording image
2. Printer Selection : enables the selection of printer installed on your Windows
3. Copy Count : can select the number of copies that you desire to print
4. Image Border : creates border line of paper used
5. Image Per One Page : specifies the number of images on one page to print
6. Print
7. Exit from the print menu

4.8 Save Images To BMP/JPEG/AVI

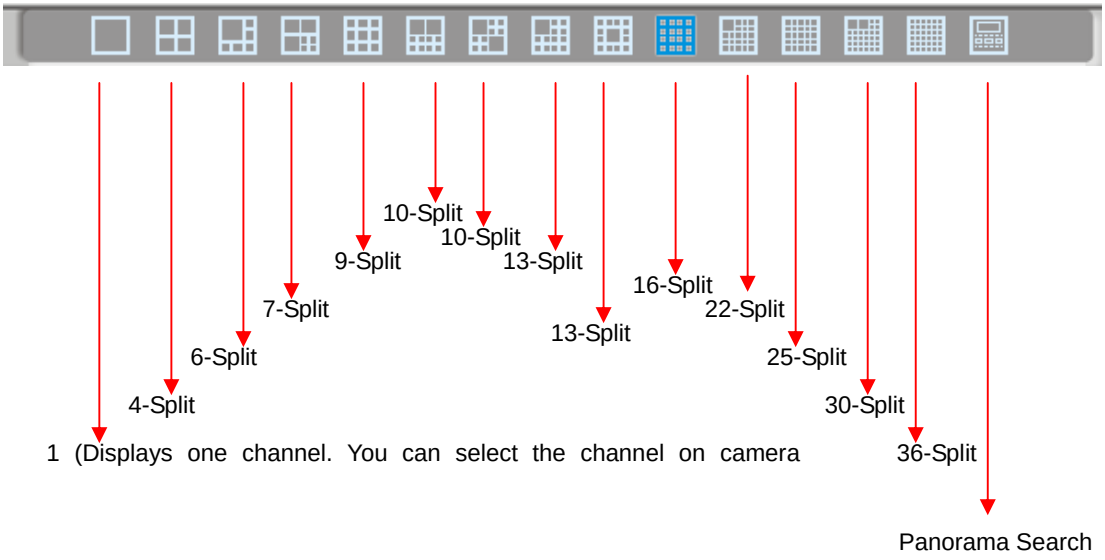
To save the images being displayed, simply press SAVE button. Double-click each image to select the images to save to BMP/JPEG/AVI. Set the options as you like. Then click SAVE button.



1. Destination : specifies the folder where the files are saved.
2. Format : can select the format of images saved (BMP, JPEG or AVI)
3. Save Info : check to display the image information of the image saved
4. Watermark : check to add digital watermark on the image saved (applied to BMP image only).
5. Move Image : click right or left arrow button to move selected channel to next or previous frame (check on “Move All” to move all channels at the same time).
6. Next Frames: Save next frames to the frame shown with the number set
7. Save
8. Exit from the print menu

4.9 Selecting On Screen Division Button

Place the curosr on the right end of playback screen to display screen division select button.

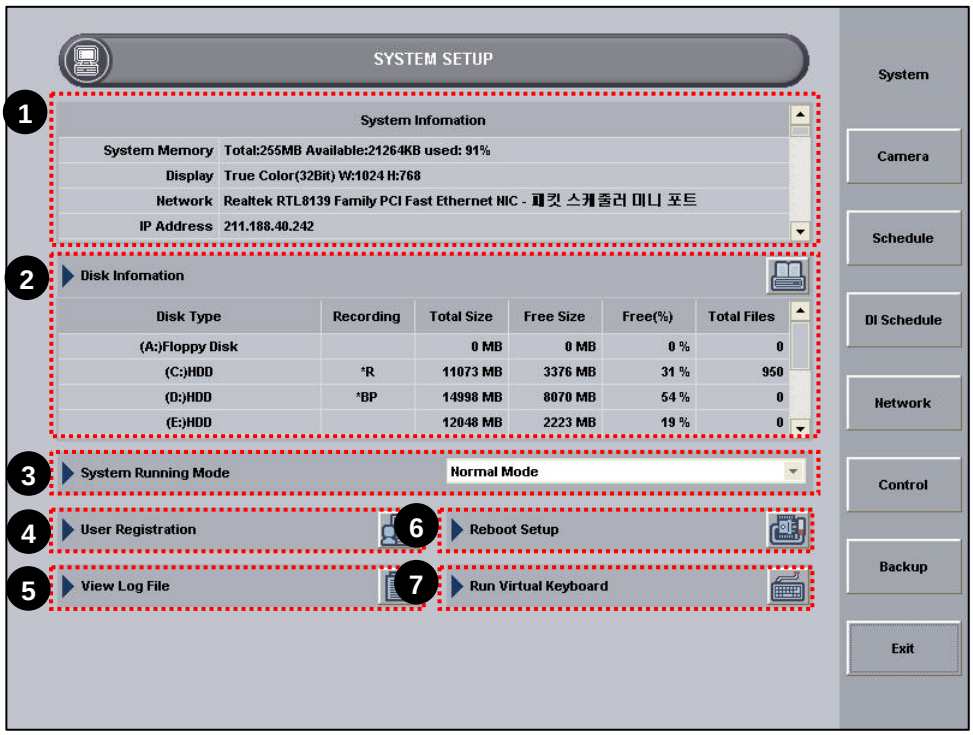


Chapter 5
Setup Mode

5.1 Setup Mode

Setup mode allows you to adjust schedules and system properties and more. In order to enter setup mode, simply click SETUP botton.

5.2 System Setup


SYSTEM SETUP
System
Camera
Schedule
DI Schedule
Network
Control
Backup
Exit
1
System Infomation
System Memory Total:255MB Available:21264KB used: 91%
Display True Color(32Bit) W:1024 H:768
Network Realtek RTL8139 Family PCI Fast Ethernet NIC - 패킷 스케줄러 미니 포트
IP Address 211.188.40.242
2
Disk Infomation
Disk Type | Recording | Total Size | Free Size | Free(%) | Total Files
(A:)Floppy Disk | | 0 MB | 0 MB | 0 % | 0
(C:)HDD | *R | 11073 MB | 3376 MB | 31 % | 950
(D:)HDD | *BP | 14998 MB | 8070 MB | 54 % | 0
(E:)HDD | | 12048 MB | 2223 MB | 19 % | 0
3
System Running Mode
Normal Mode
4
User Registration
6
Reboot Setup
5
View Log File
7
Run Virtual Keyboard

1. System Information : shows the details of your system. Use the scroll bar to view the content to the end.

2.HDD DiSK Information : shows current recording and backup drives setup.

3. System running mode : selectable between “normal mode” and “DVR mode”.

   1) Normal mode : loads items before running KOCOM-DVR program.

   2) DVR mode : hides top items before running KOCOM-DVR program. Exiting program shuts down Windows automatically.

4. User registration : sets 6 user access levels.

5. View log file : displays the system log file.

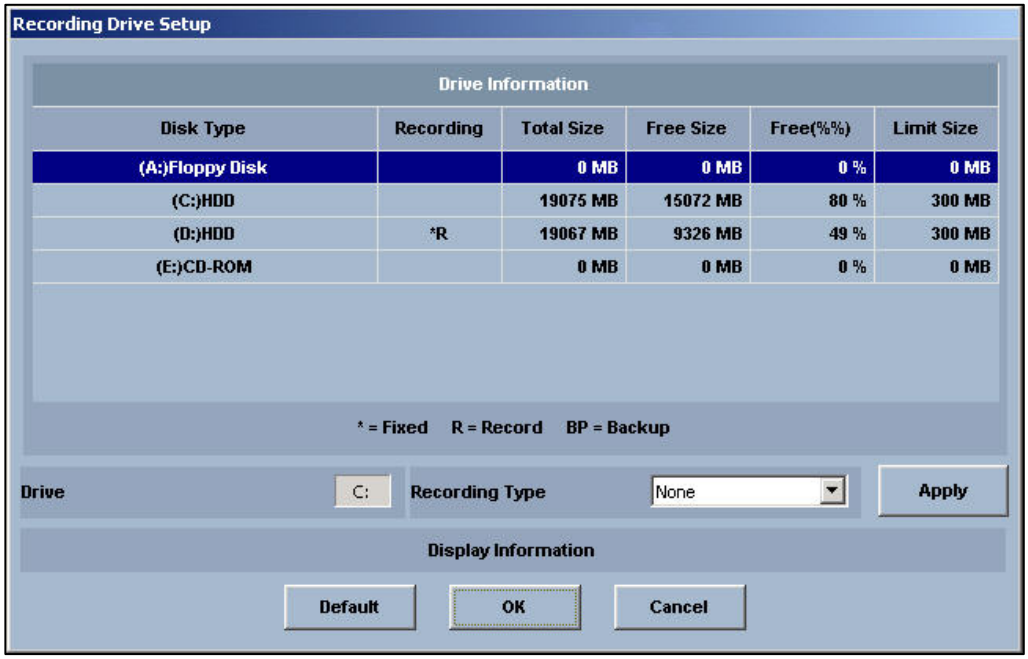
6. Reboot setup : sets daily, weekly or monthly schedule of system rebooting or shut-down.

7. Run Virtual keyboard : runs virtual keyboard

5.2.1 Recording & Backup Drive Setup

When you run KOCOM DVR program first after installation, Recording Drive Setup will pop up, where you can set the recording and backup drives.

In order to add the recording & backup drives to the current setup, enter SETUP Mode. Then click MODIFYING button in system setup menu.



1. Select the drive displayed in the list by clicking on it.

2. Then select the recording type among recording or backup. Click apply.

3. Repeat step 1 and 2 in order to add more recording or backup drives.

4. Click OK to finalize the setup.

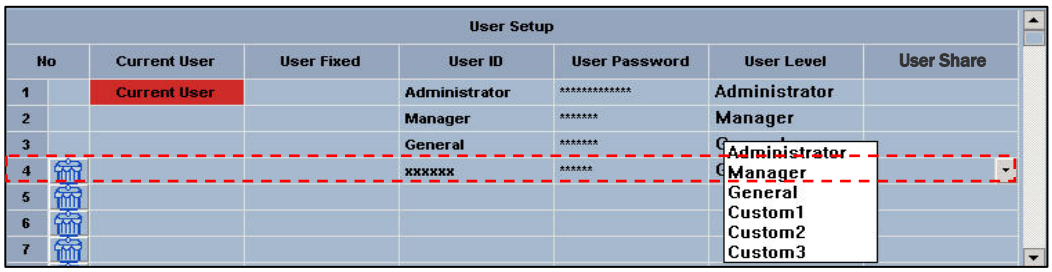
5.2.2 User Registration

KOCOM DVR program provides 6 user levels to limit the access for program operation. User levels are adminstrator, manager, general, custom1, custom2 and custom3. KOCOM DVR program is initially set with Adminstrator ID, which can control all functions.

In order to prevent someone from operating the program or to modify the current setup, simply click USER SETUP button in system setup menu.

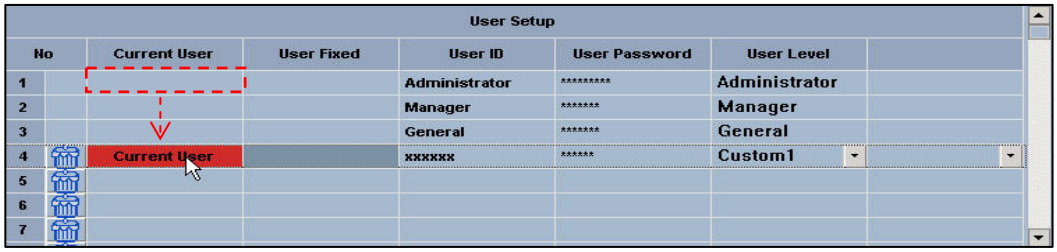
1. Registering new user on the list or delete

Click blank line. Then double-click on the User ID column to enter new ID and Password. And select one level among 6 levels. Additional 17 new users can be registered, which makes total 20 users. Clicking the trash button on the left deletes the User.



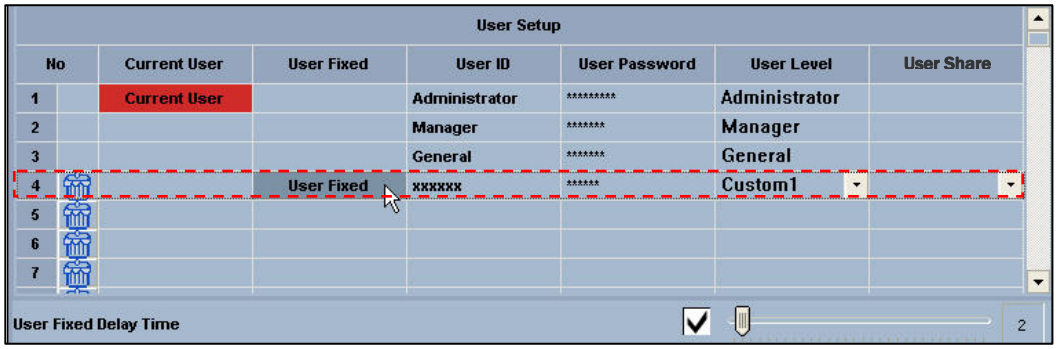
2. Setting Current User

Initially user ID is set at Administrator. If you select another user as “Current User” and exit User Setup menu, the program will ask the user for password unless the user is authorized with the corresponding functions.



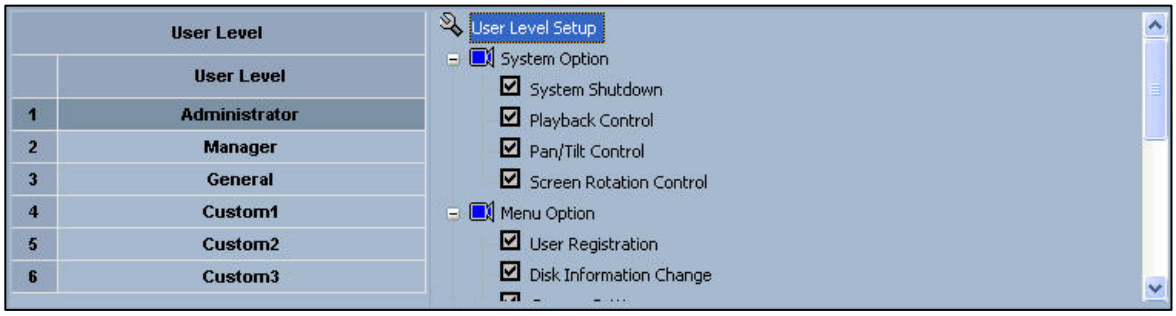
3. Setting User Fixed

Set another user as “User Fixed” on the list and exit the setup. Then the program will return to surveillance mode and Current User will switch to the user level defined as “User Fixed” automatically after the time of no-input on Setup Mode, which can be set on “User Fixed Delay Time”.



4. Authorizing each 6 user level

In order to set authorithy of indivisual user level, click each user level and check on the box of each fuction as below.



☛ **Adminstrator, Manager and General are not allowed to be modified by user's own.**

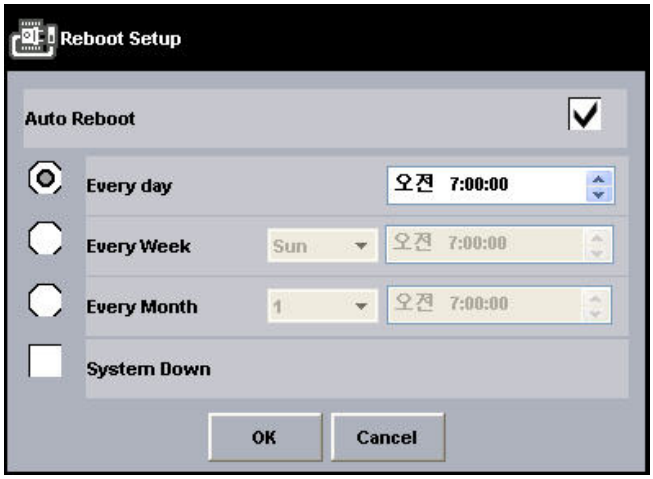
After user setup is done, click OK button in order to finalize the setting. If not, click Exit button.

5.2.3 Rebooting Setup

To set periodical system reboot or shut-down, simply click REBOOT SETUP button.

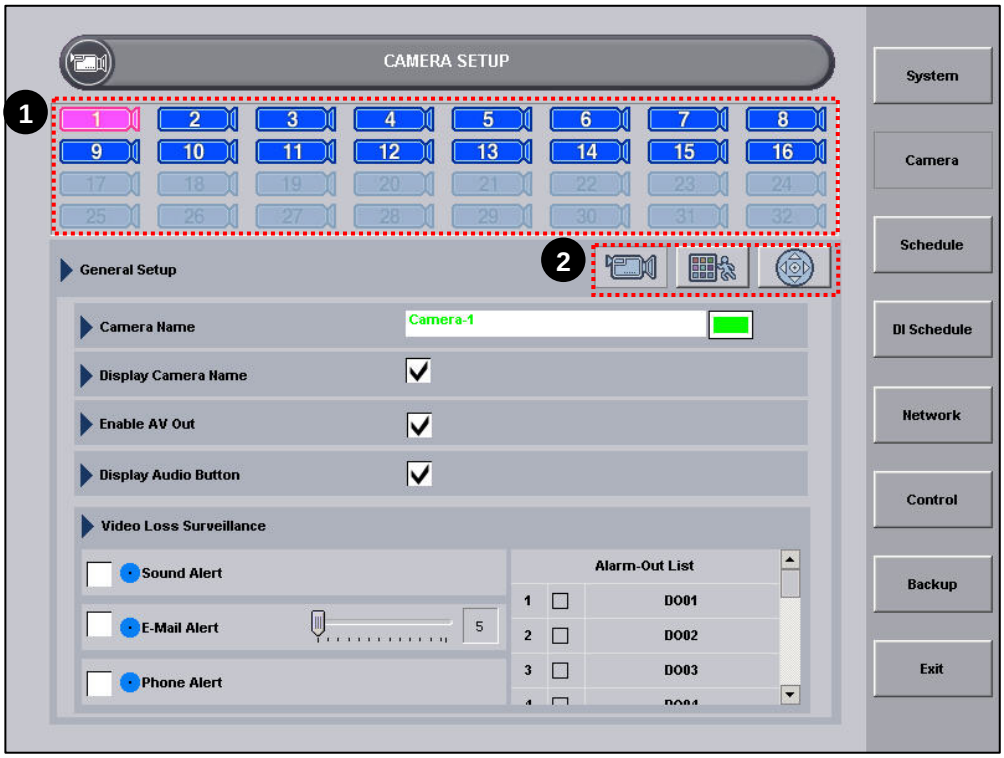
Checking on "Auto Reboot" and on one of Every day, Every week or Every month. Then set the time, day or date. Then exit to finalize the setup. The program will perform scheduled rebooting.

If "System Down" is checked on together, the system will be automatically shut off as scheduled.



5.3 Camera Setup

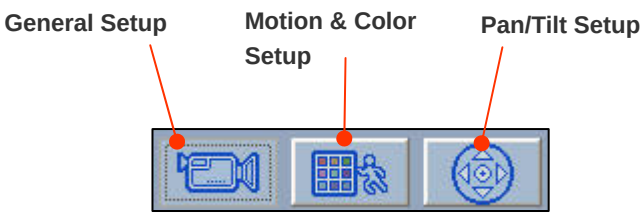
Camera Setup mode allows you to set camera functions indivisually. There are three functional parts, General, Motion & Color and Pan/Tilt.



1. You can select indivisual camera button to set its property by clicking on it. Doubleclick on camera button will repeat activation and inactivation of each channel. After program installation, only no.1 channel will activate. Therefore, all camera buttons should be doubleclicked indivisually.

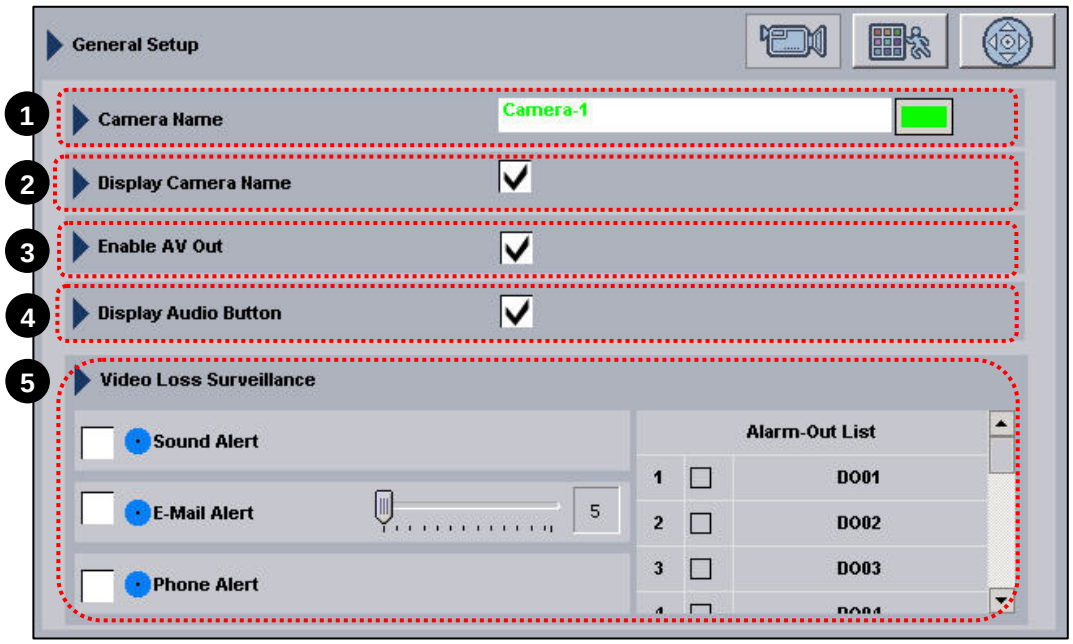
☛ : the channel selected , : the channel activated , : the channel inactivated

2. Click one of three functional buttons in order to set camera properties.



5.3.1 Setting General Camera Property

In order to set general camera properties, click GENERAL SETUP button and select each camera icon on the above.



1. Camer Name : enter the camer name desired to be displayed on the image. The font color can be change by clicking color button on the right end.

2. Display Camera Name : check on the box to display the camera name.

3. Enable AV Out : check on the box to allow the camera to be view through TV monitor.

4. Display Audio Button : check on the box to display audio icon on camera view as the below picture.

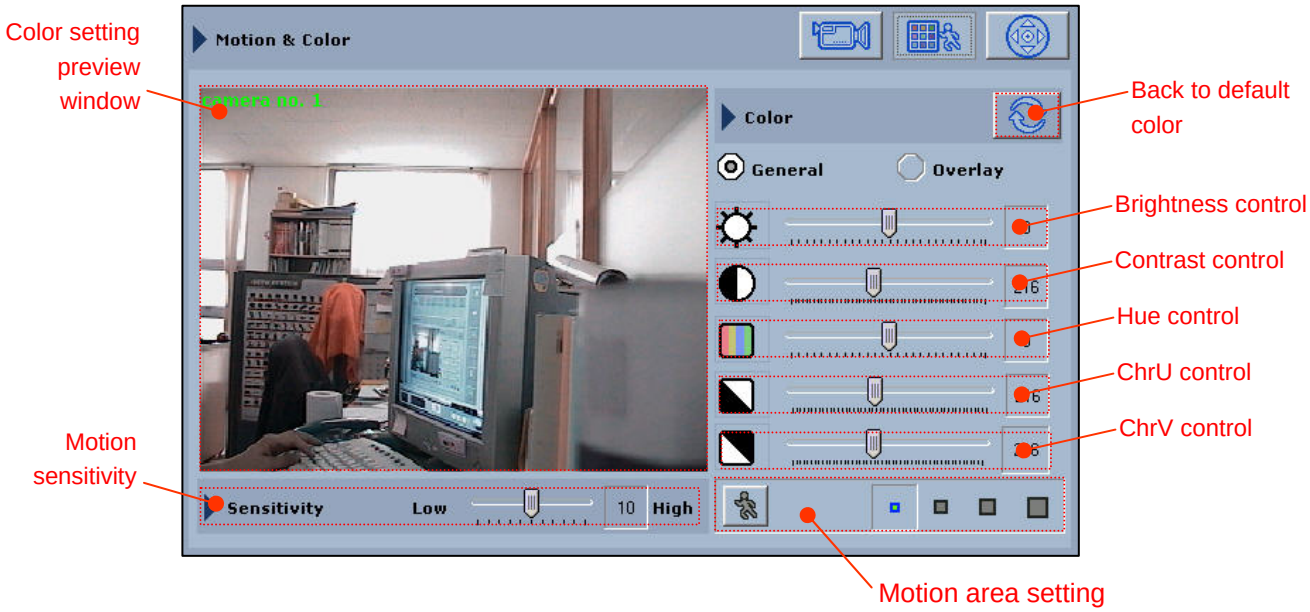
5. Video Loss Surveillance : check on each option to enable sending alert when there is no video signal

- Sound Alert : makes beep sound through PC speaker
- E-mail : sends e-mail upon video loss (Refer to E-mail Setup)
- Phone Alert : calls to registered no. upon motion event (Refer to Dial-up Setup)

- Alarm-Out : sends digital outputs (alarm, lamp and so on) checked upon video loss

5.3.2 Setting Motion & Color Properties

In order to set motion & color properties, click MOTION & COLOR SETUP button and select each camera icon on the above.



1. Setting Color

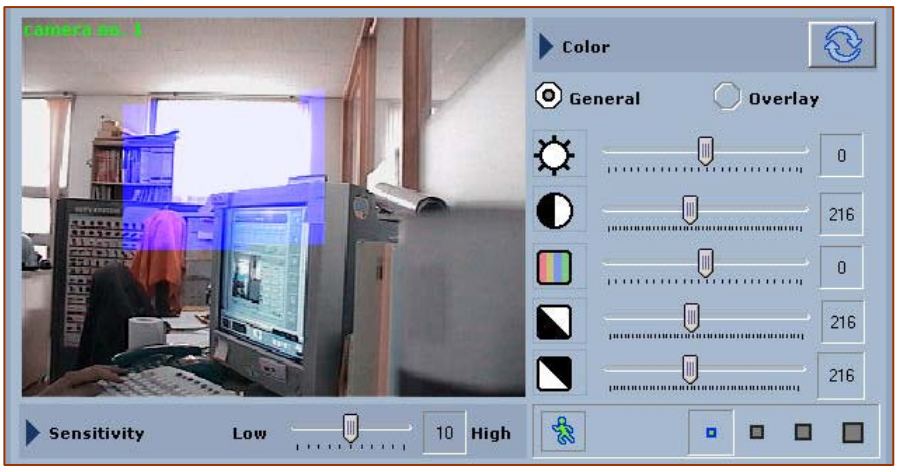
Move the below slide bars in order to get color setting that you desire to have.

☛ **Select on Overlay from KDB 480S Display model.**

2. Setting Motion Properties

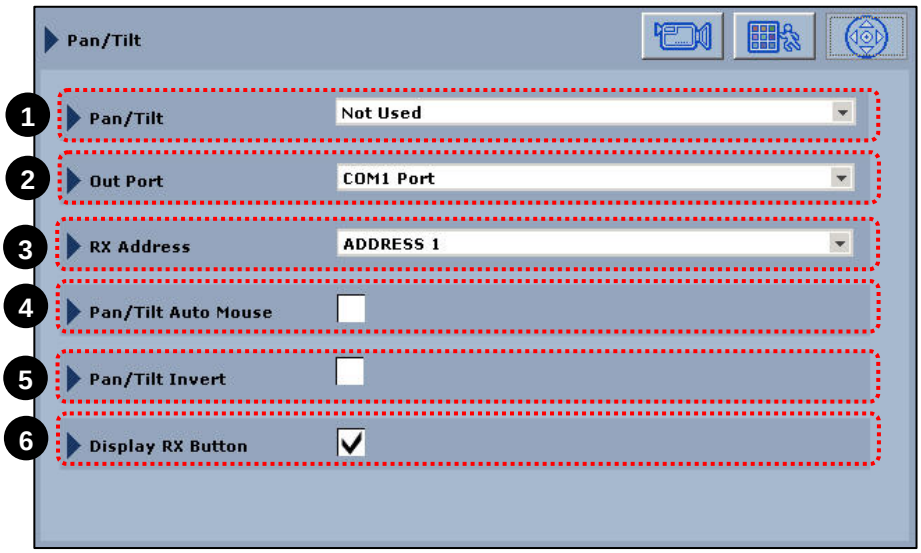
- Motion sensitivity : move the slide bar ranges from Low to High

- Motion area setting : Click motion area setting button [ ] and select the size of brush [ ]. Then drag the brush on the preview window. To set the area, leftmouse-drag. Or cancel the area, rightmouse-drag. Blue shaded area is motion setting area.



5.3.3 Setting Pan/Tilt

In order to set pan/tilt properties, click PAN/TILT SETUP button and select each camera icon on the above.

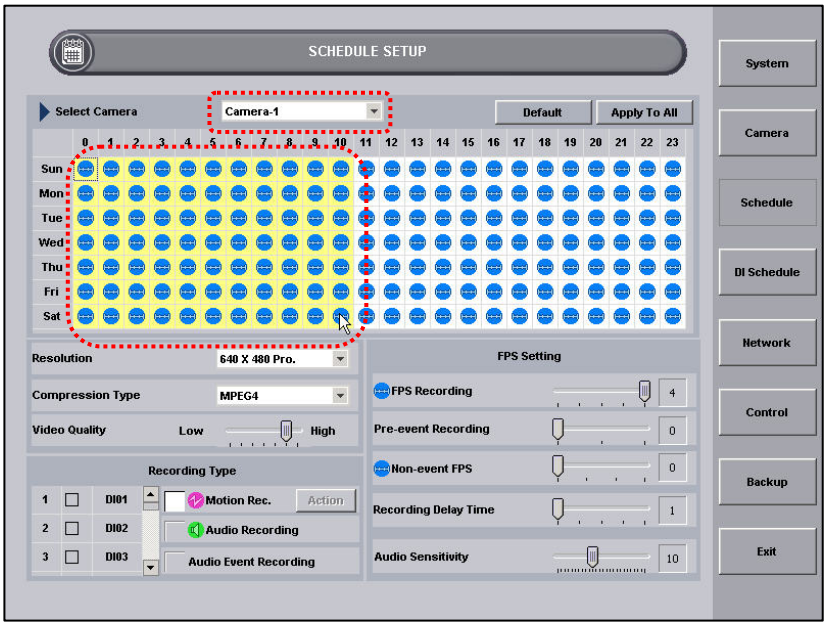


1. RX Type Selection : Select the model of RX.
2. Out Port Selection : Select the COM port which connects to converter.
3. RX Address : Select the Address No. which exactly matches with one of the RX.
4. Pan/Tile Auto Mouse : Check on the box to enable pan/tile control using mouse.
5. Pan/Tile Invert : Check on the box to make pan/tilt direction inversed.
6. Display RX Button : Check on the box to display the pan/tilt icon on the camera view.

5.4 Schedule Setup

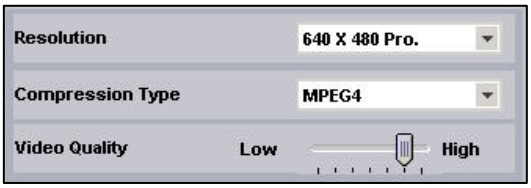
Schedule Setup mode allows you to set recording schedule for each camera.

1. Select camera no. to set schedule. And drag and drop the mouse on the specific DAY and TIME zone to set schedule.



2. Set the detailed recording options.

- Set resolution one of “160x120, 240x180, 320x240 or 640x480)
- Set compression type one of “Mpeg4 or Mjpeg”
- Set video quality from “Low” to “High”.



3. Check on each recording type

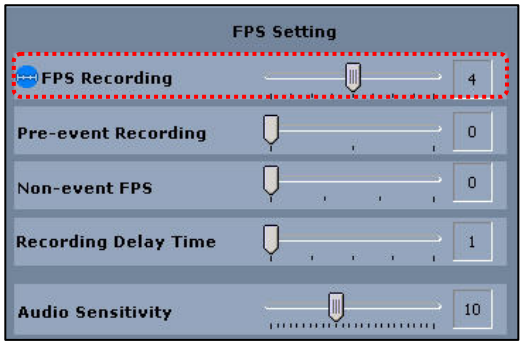
(DI, Motion, Audio Recording and Audio Event Recording).

※ Checking on Audio Recording will enable recording sound from microphone. Checking on Audio Event Recording will trigger recording when audio event happens.

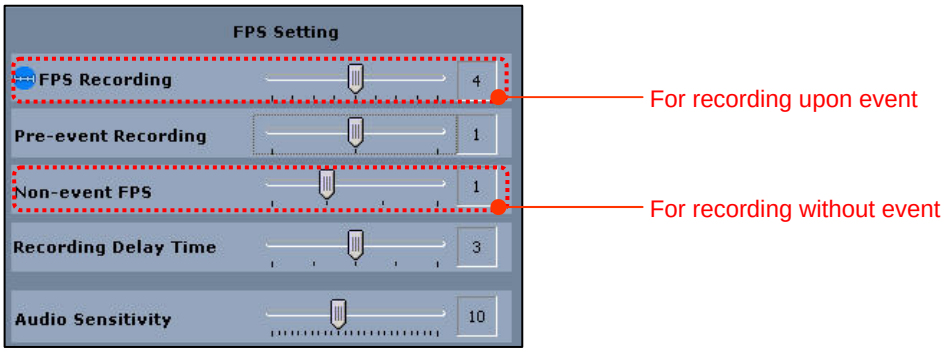
※ **Click Action button to select alert mode when motion event occurs.**

- Display Motion Areas : makes motion area blue shaded
- Sound Alert : makes beep sound through PC speaker
- E-mail : sends e-mail with captured image to registered address (Refer to E-mail Setup)
  Alert delay time setting is 5 to 30 sec
- Full Screen Display : displays one full screen of the camera view with motion event
  Alert delay time setting is 5 to 30 sec
- Phone Alert : calls to registered no. upon motion event (Refer to Dial-up Setup)
- Alarm-Out : sends digital outputs (alarm, lamp and so on) checked upon motion event

4. If you don't check on Motion Recording, set frame per second on FPS Recording slide bar. Another slide bars is inactive.



If you check on Motion Recording or DI nos, set frame per second for event recording on FPS Recording slide bar and set non event frames on Non-event FPS slide bar.



Pre Alarm : start recording specific frames ahead upon event.

- Mpeg4 : 0 to 2 key frames

- Mjpeg : 0 to 30 frames

Recording Delay Time : start the recording specific seconds afterwards upon event

- Range : 0 to 5 seconds

Audio Sensitiveness : 0 to 25

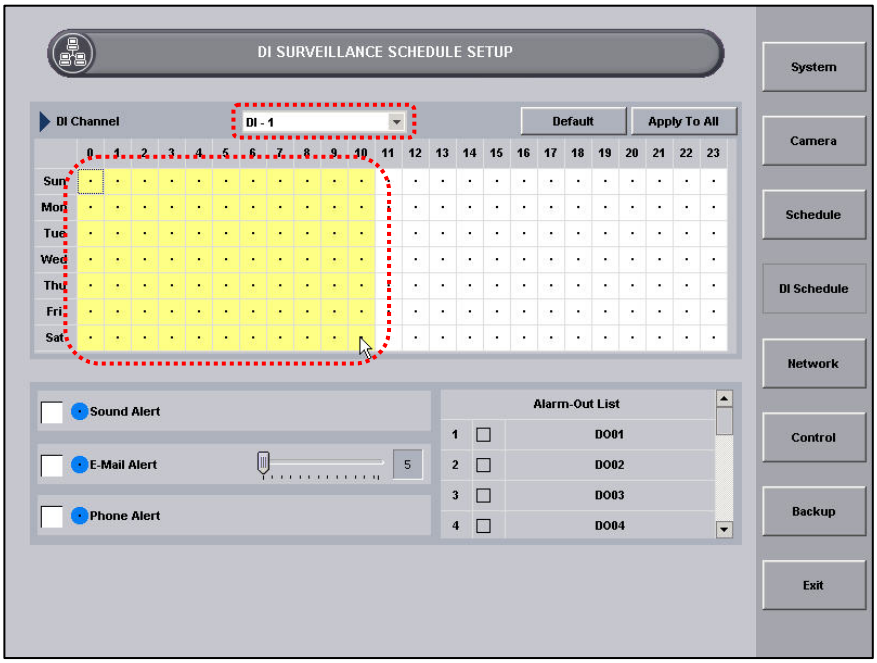
※ You can repeat the step 1 to 4 in order to set schedule on multiple DAY and TIME zones.

5. Click Exit button to save and exit.

5.5 DI Surveillance

DI Surveillance Setup mode allows you to set DI surveillance schedule for each DI.

1. Select DI no. to set schedule. And drag and drop the mouse on the specific DAY and TIME zone to set schedule.



2. Check on alert option in order to send alert upon motion event.
   - Sound Alert : makes beep sound through PC speaker
   - E-mail : sends e-mail to registered address (Refer to E-mail Setup)

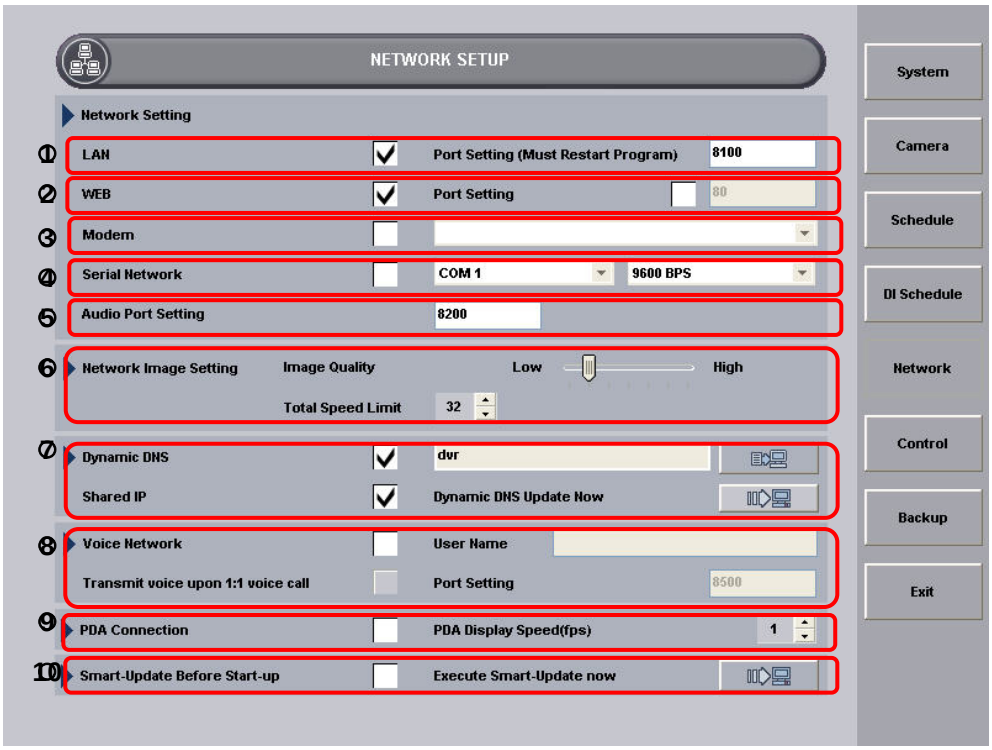
     Alert delay time setting is 5 to 30 sec
   - Phone Alert : calls to registered no. upon motion event (Refer to Dial-up Setup)
   - Alarm-Out : sends digital outputs (alarm, lamp and so on) checked upon DI event

3. Click Exit button to save and exit.

※ You can repeat the above steps in order to set schedule on multiple DAY and TIME zones.

5.6 Network Setup

Network setup mode enables you to set every network-related properties.



1. Lan : check on to allow video image transmisstion through TCP/IP.

☞ Default video port is 8100. If you want to change, enter another port no. And restart the program.

2. Web : check on to allow remote access through web browser

☞ Default web port is 80. If you want to change, check on “Port Setting Option” and enter new port no.

☞ Please make sure that video and web port (8100 & 80) are forwarded to the DVR if there is router or firewall.

3. Modem : check on the box and choose the corrent type of modem that you use for modem-to-modem connection.

4. Serial Network : check on the box and choose COM Port No. to communicate through serial port

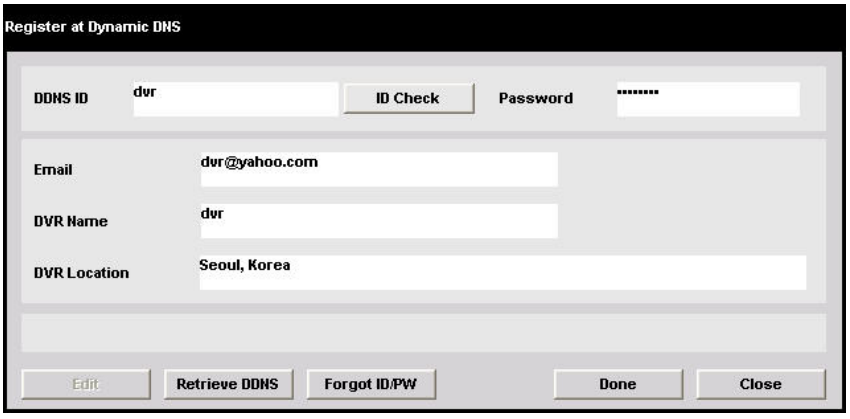
5. Audio Port Setting : set the port for transferring sound to remote site. Default port is 8200.

6. Network Image Quality : you can set the image quality trasferred via internet using adjustment bar. The higer the image becomes, the bigger the size gets.

Totel Speed Limit : you can set total transfer frame rate allowance.

7. Dynamic DNS : In case of using dynamic IP or private IP, you can Dynamic DNS service.

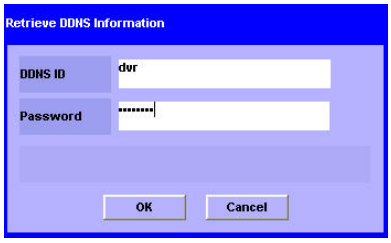
1) Unless you have DDNS ID/PW, you can move to DDNS register menu by pressing DDNS Register Button . Then below DDNS Register Menu will show up as below.



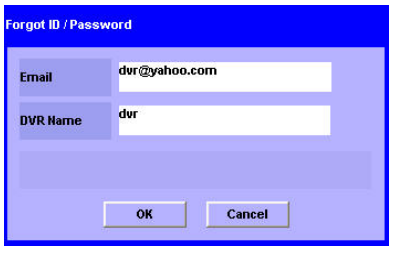
2) Enter the ID that you like to register. Then press “ID Check”. If the ID is available, enter Password, Email, DVR Name and DVR Location. Then press “Done”. *For example, if “dvr” is registered as ID, only the ID “dvr” can be used instead of IP address from remote client program. And web client URL is* http://godvr.net/dvr

☛ DDNS ID can be up to 20 characters. It will accept “a – z”, “0 – 9”, “-“ and “_”. And will not accept space.

☛ When you unistall and reinsall DVR program, you need to retrieve DDNS ID/PW previously registered. Press “Retrieve DDNS”. And enter the ID and PW you registered. Press “OK”. Then DDNS ID/PW will be restored.



☛ When you forget DDNS ID/PW, press “Forgot ID/PW” button. Enter the e-mail and DVR name previously registered. And press “OK”. Then registred DDNS ID/PW will be sent to your e-mail registered.



☛ If the DVR is behind the router or firewall (IP is private IP), you can check on “Shared IP” option. Then public IP information in the DVR will be automaticall every one hour when it changes. For manual IP update, you can press “Dynamic DNS Update” button . Please make sure to forward the video and web port (8100

and 80 if unchanged) to the DVR from router.

8. Voice Netwok : check on the box for two-way voice communication and enter the name desired.

Transmit voice upon 1:1 voice call : enables allowing 1: 1 voice talk only with client's call.

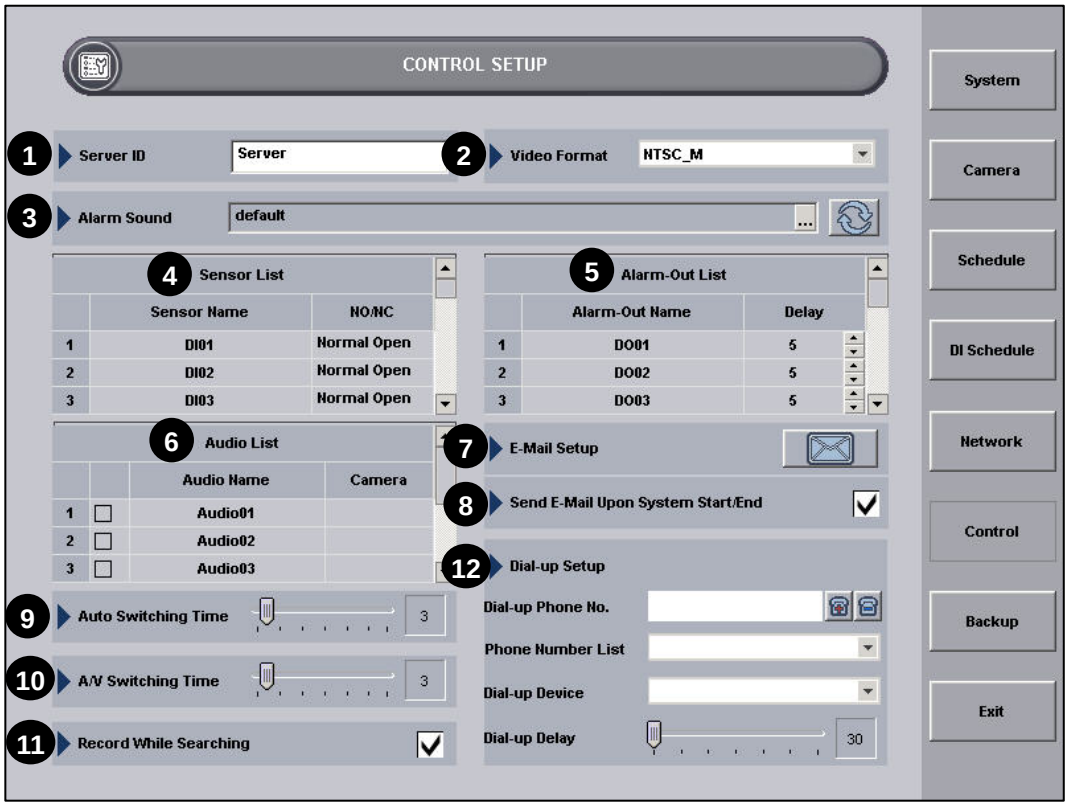
Port Setting : set the port used for transferring voice. Default is TCP8500/UDP8500.

9. PDA Connection : check on to enable access from PDA client

10. Smart-Update Before Start-up : check on to use Smart Update function before running the program.

Execute Smart-Upgrade Now : click the button to run instant Smart Updated right now.

5.7 Control Setup



1. Server ID : Enter Server ID that you desire to have.

2. Video Format : Select the correct video format used in your area.

3. Alarm Sound : Can select the WAV file which gives alert through PC speaker upon events. Or you can use default.

4. Sensor List : Shows sensor list. You can enter the name of sensor instead of DO##. And can select the type Open (Normal Open) or Closed (Normal Closed).

5. Alarm-out List : Shows alarm list. You can enter the name of sensor instead of DI##. And can select alarm delay time from 0 to 30 seconds.

6. Audio List : Shows audio list. You can enter the name of sensor instead of Audio##. And can camera no. to be mixed with the audio recording. You must select camera no. per each audio port in order to use audio function.

7. E-mail Setup :

1) Outgoing Mail Server : Enter SMTP mail server that the mail will be sent through

2) Authentification Method : Select authentification method

3) Account Name : Enter the account name

4) Account Password : Enter the account password

5) Encoding Method : Select the suitable one with your language

6) User Mail Address : Enter you mail address

7) E-mail : Enter e-mail addresses which get e-mail report upto 10 nos upton the below events.

Check on each event options to report to each recipient.

- M : Motion detection / V : Video Los / D : Sensor Event / S : Program start/end

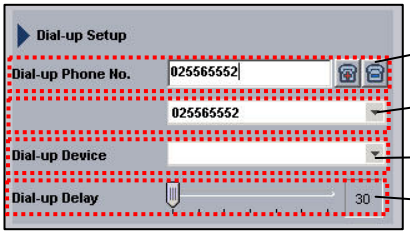
8. Send E-mail Upon System Start/End : Check on the box to send e-mail to recipients when system starts or ends

9. Auto Switching Time : Set the time interval between screens when auto switching mode

10. AV Switching Time : Set the time interval between screens when connected to AV monitor

11. Record While Searching : Check on the box to record while searching

12. Dial-up Setup



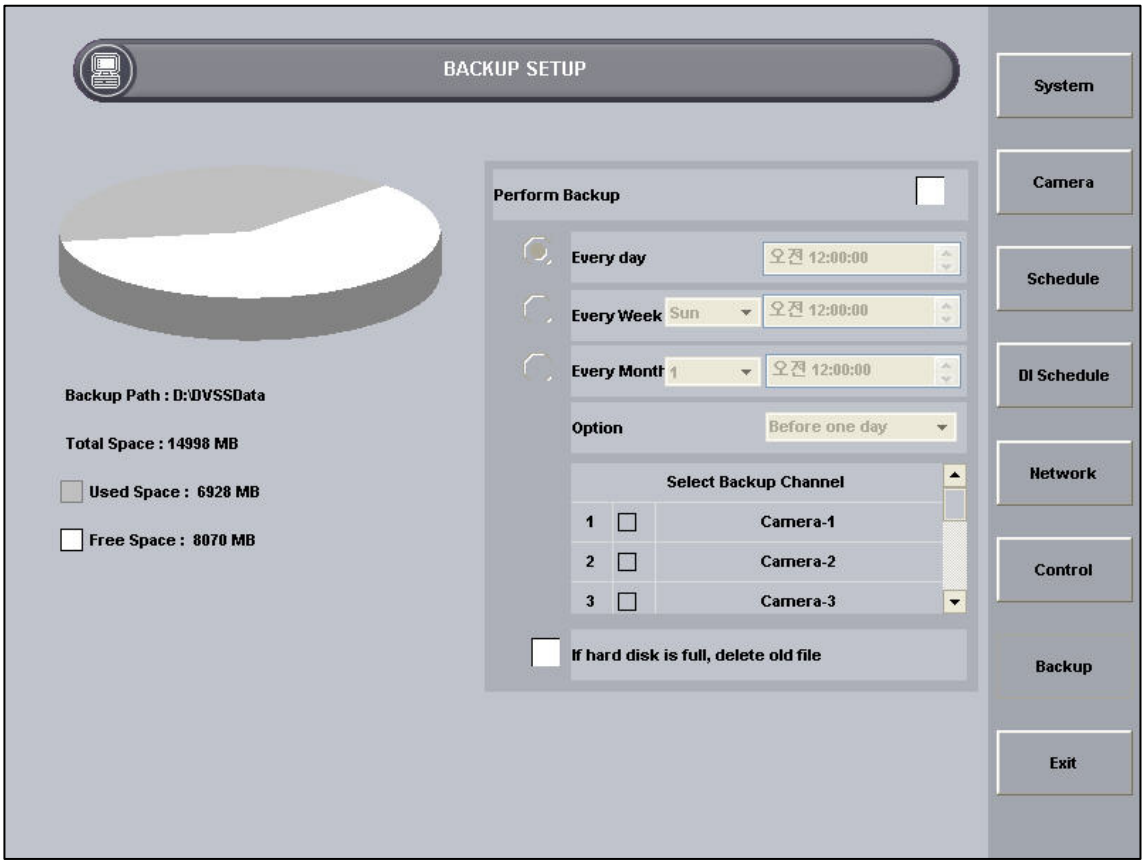
Enter the phone no. and click (+) to register
To delete, click (-) icon.

Shows the phone no. list

Shows the modem list on the DVR

Sets the ringing time

5.8 Backup Setup

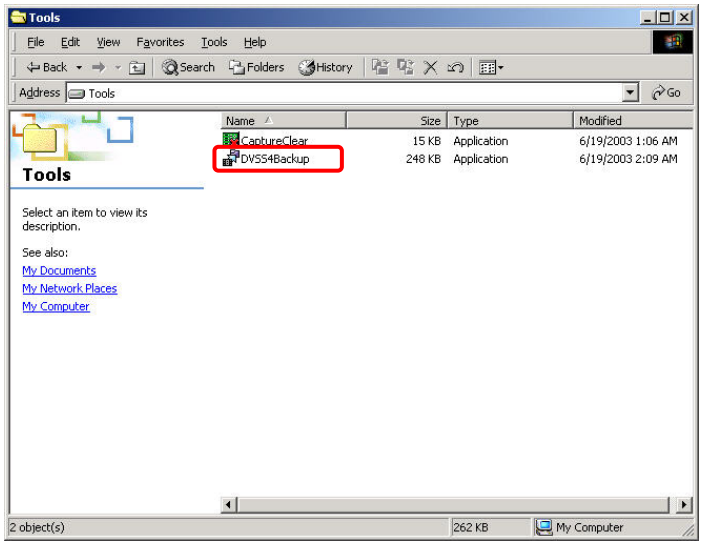


1. Automatic Backup

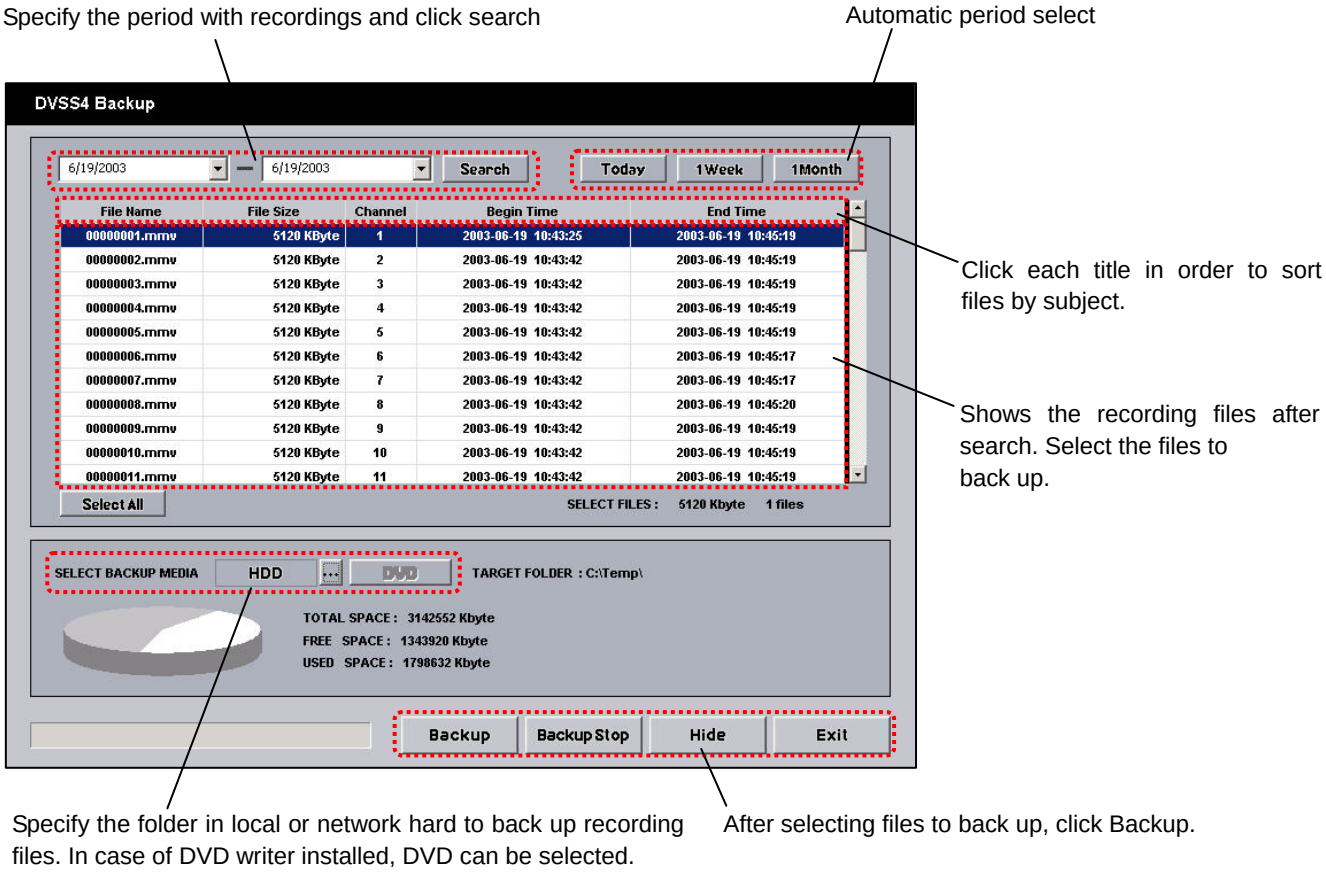
1. Check on “Perform Backup” to perform backup scheduled.
2. After checking on “ Every day, Every week or Every Month”, set date, day or time.
3. Check on “Before one day, Before one week or Before one month” from Option.
4. Select the channle no. that you want to backup
5. In order to erase older datas, check on “If hard drive is full, delete old file”.

2. Manual Backup

Run “KOCOM-DVRBackup.exe” in “C:\KOCOM-DVR\Tools” folder in order perform backup manually.

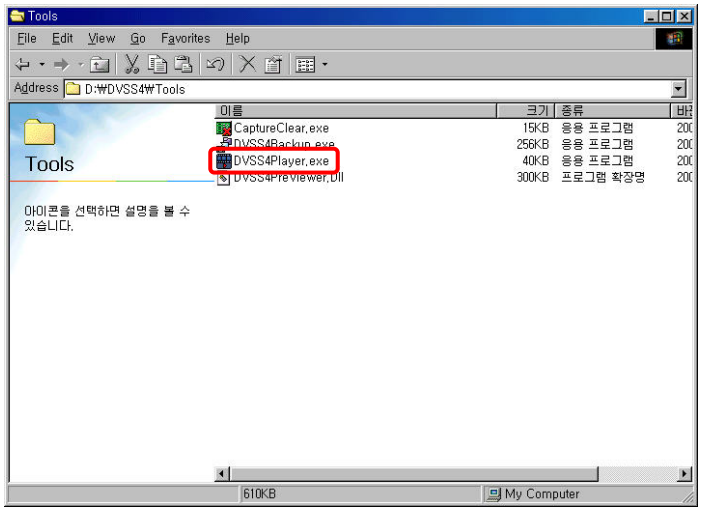


Then the below backup program will run.


Specify the period with recordings and click search
Automatic period select
DVSS4 Backup
6/19/2003
6/19/2003
Search
Today
1Week
1Month
File Name
File Size
Channel
Begin Time
End Time
00000001.mmv 5120 KByte 1 2003-06-19 10:43:25 2003-06-19 10:45:19
00000002.mmv 5120 KByte 2 2003-06-19 10:43:42 2003-06-19 10:45:19
00000003.mmv 5120 KByte 3 2003-06-19 10:43:42 2003-06-19 10:45:19
00000004.mmv 5120 KByte 4 2003-06-19 10:43:42 2003-06-19 10:45:19
00000005.mmv 5120 KByte 5 2003-06-19 10:43:42 2003-06-19 10:45:19
00000006.mmv 5120 KByte 6 2003-06-19 10:43:42 2003-06-19 10:45:17
00000007.mmv 5120 KByte 7 2003-06-19 10:43:42 2003-06-19 10:45:17
00000008.mmv 5120 KByte 8 2003-06-19 10:43:42 2003-06-19 10:45:20
00000009.mmv 5120 KByte 9 2003-06-19 10:43:42 2003-06-19 10:45:19
00000010.mmv 5120 KByte 10 2003-06-19 10:43:42 2003-06-19 10:45:19
00000011.mmv 5120 KByte 11 2003-06-19 10:43:42 2003-06-19 10:45:19
Select All
SELECT FILES : 5120 Kbyte 1 files
SELECT BACKUP MEDIA
HDD
DVD
TARGET FOLDER : C:\Temp\
TOTAL SPACE : 3142552 Kbyte
FREE SPACE : 1343920 Kbyte
USED SPACE : 1798632 Kbyte
Backup
Backup Stop
Hide
Exit
Click each title in order to sort files by subject.
Shows the recording files after search. Select the files to back up.
Specify the folder in local or network hard to back up recording files. In case of DVD writer installed, DVD can be selected.
After selecting files to back up, click Backup.

3. Viewing the backup files

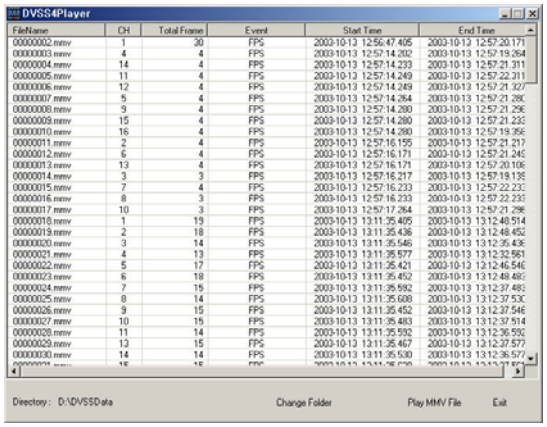
Run “KOCOM-DVRPlayer.exe” in “C:\KOCOM-DVR\Tools” folder in order play backup files.



Select the folder where backup files exist

Doubleclick on the file you want to play from the list.

Then KOCOM-DVRPlayer will run instantly.



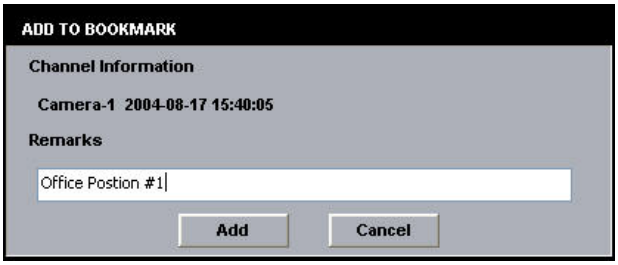
KOCOM-DVR Player

4.4 Add To Bookmark / View Bookmark List

Add To Bookmark

1. Select the specific camera view and click “Add To Bookmark Button”

2. Enter the remarks in the blank. And clieck “Add”.



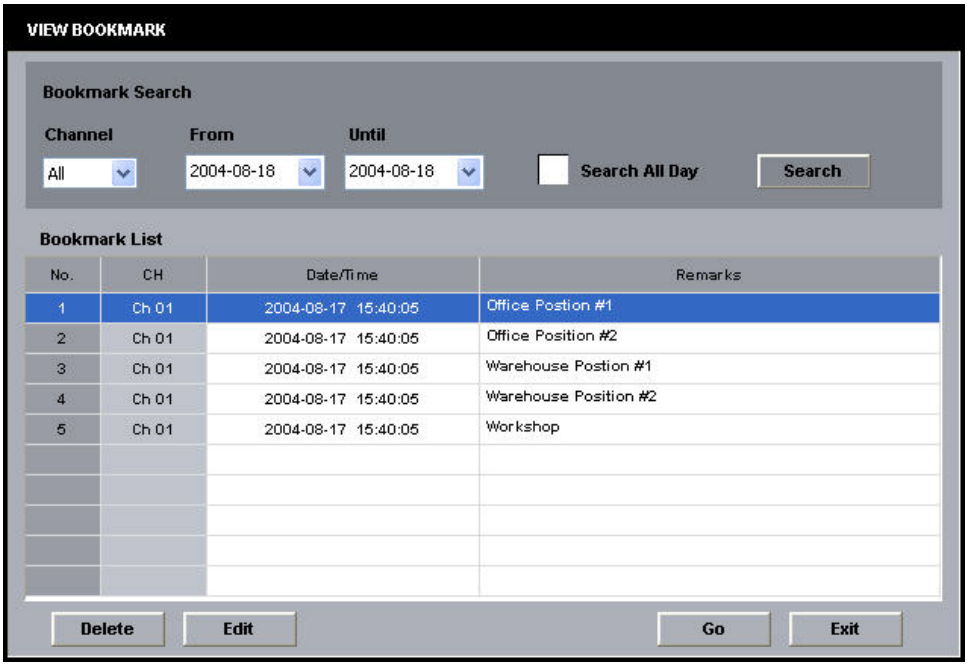
3. Then the bookmark will be saved on the bookmark list.

View Bookmark List

1. Click “View Bookmark List Button” to search and view bookmarks

2. Select specific channel or whole channles, and the period to search bookmarks.

3. Click “Search”. Then bookmarks will be listed as shown below.



4. Select one bookmark and click “Go”. Then the selected image will be played in one-split mode.

☞ To delete the bookmark , select one and press delete button. You can select multiple bookmark by using Ctrl or Shift

Key together.

☞ To edit the remak of the bookmark, press “Edit” and change the remark.

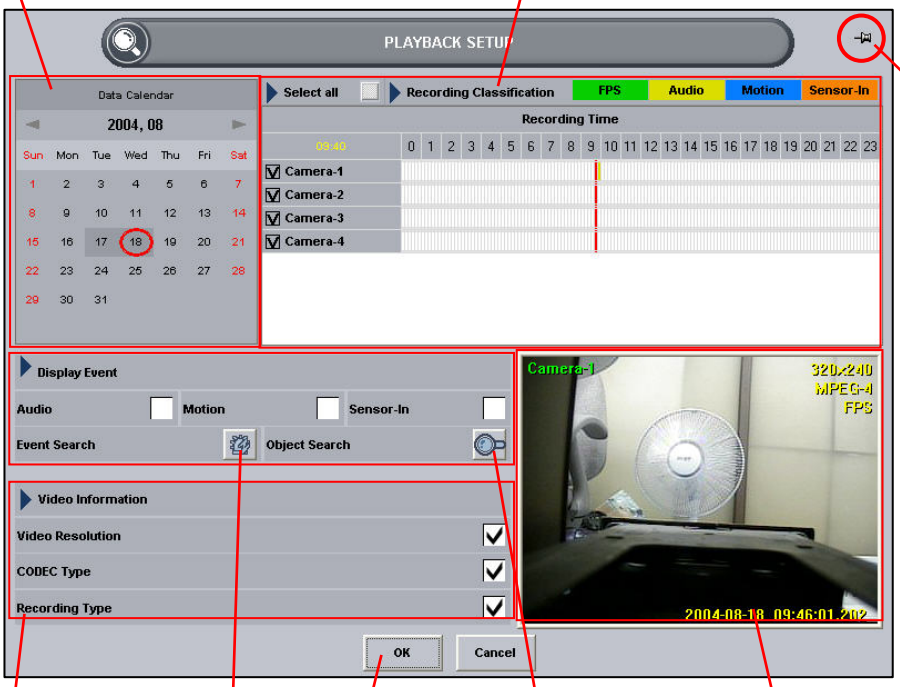
4.5 Search Option Menu

By clicking search mode button, you can shift from display mode to search mode where you can playback the recording images.

Then playback setup will be displayed ;

1. Date Selection Menu
The date having recording is displayed colored. Click the date that you want to search from.

2. Search Time
The time having recording is displayed in color (FPS:Green, Audio:Yellow, Motion:Blue, Sensor-In:Orange). Move the red bar to the time that you want to play.
※ You can check or uncheck on the box next to camera name to select channels to play.



Click the button to keep viewing the playback setup menu before running search mode.

7. Preview Window
Displays the preview images of recordings.
In order to view preview from the camera of specific time, click on the corresponding time on camera line.

6. Video Information
Check on each to displayed resoultion, codec type or recording type on recording images.

3. OK
Click to play selected images.

4. Event Search
See page 27 for details.

5. Object Search
See page 28 for details.

4.7 Object Search

This function allows user to search the movement of object in the particular area selected on the date/time selected.

1. Press “Object Search Button” from Search Option Menu.

2. Select the channel and date/time to search object.

3. Press “Add” and draw regions on preview screen. To delete regions, press “Delete” and just draw rectangular regions on the current regions drawn. To delete all regions, simply press “Delete All”.

4. Press “Search”. Then search result will be shown on Motion Event List as shown below.

☞ Selecting one event from the list will show the image on preview screen.

☞ To add one event to book, select one and press “Add To Bookmark”.

BACK-UP USING CD-RW OR DVD-RW

1. Media

You can use CD-RW if the recorder is CD-RW. Or use DVD-RAM if it's DVD-RW.

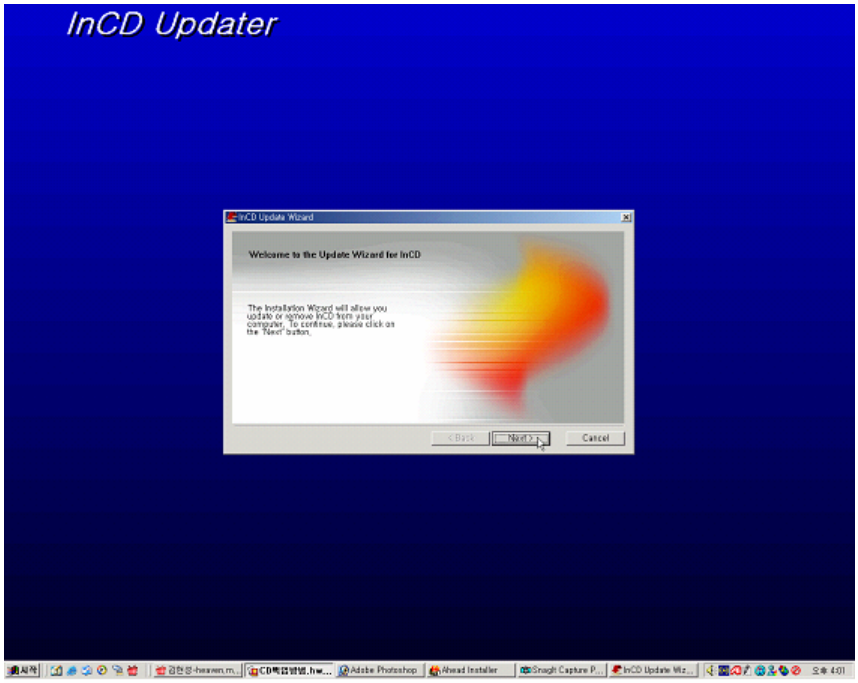
CD-RW

DVD-RAM

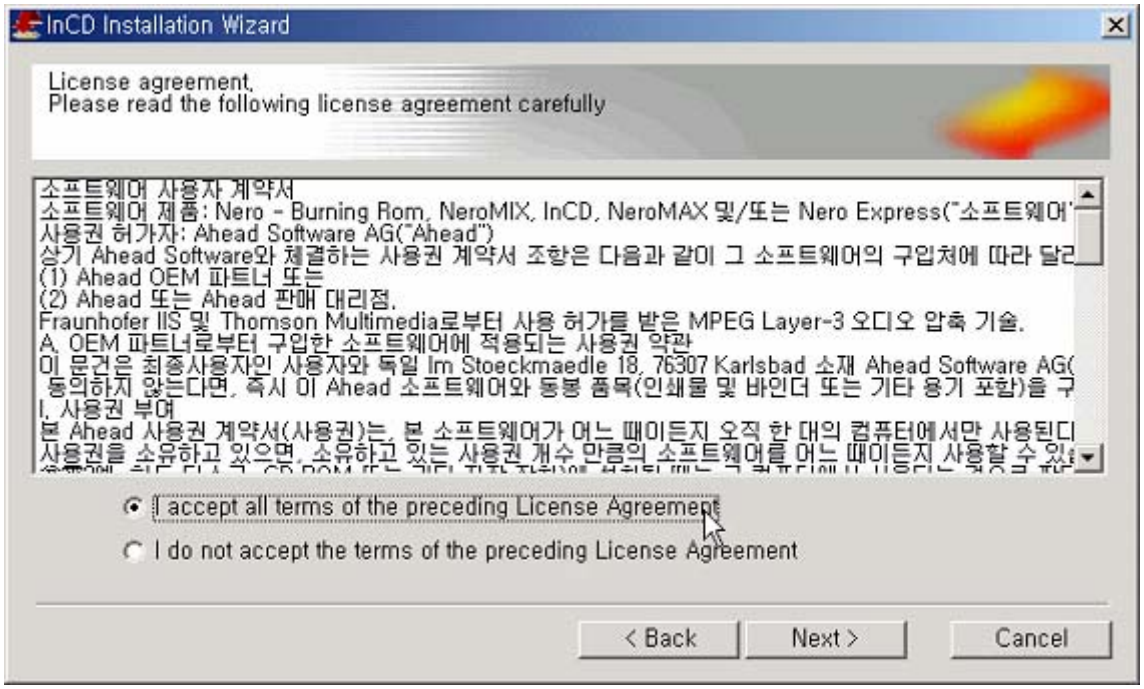
2. CD-RW Program Installation

1) If CD-RW is installed, you can install INCD. Or if DVD-RW is installed, please install DVDFORM program. After inserting Nero Install CD, select InCD.

2) Click “Next” upon InCD Updater screen comes up.

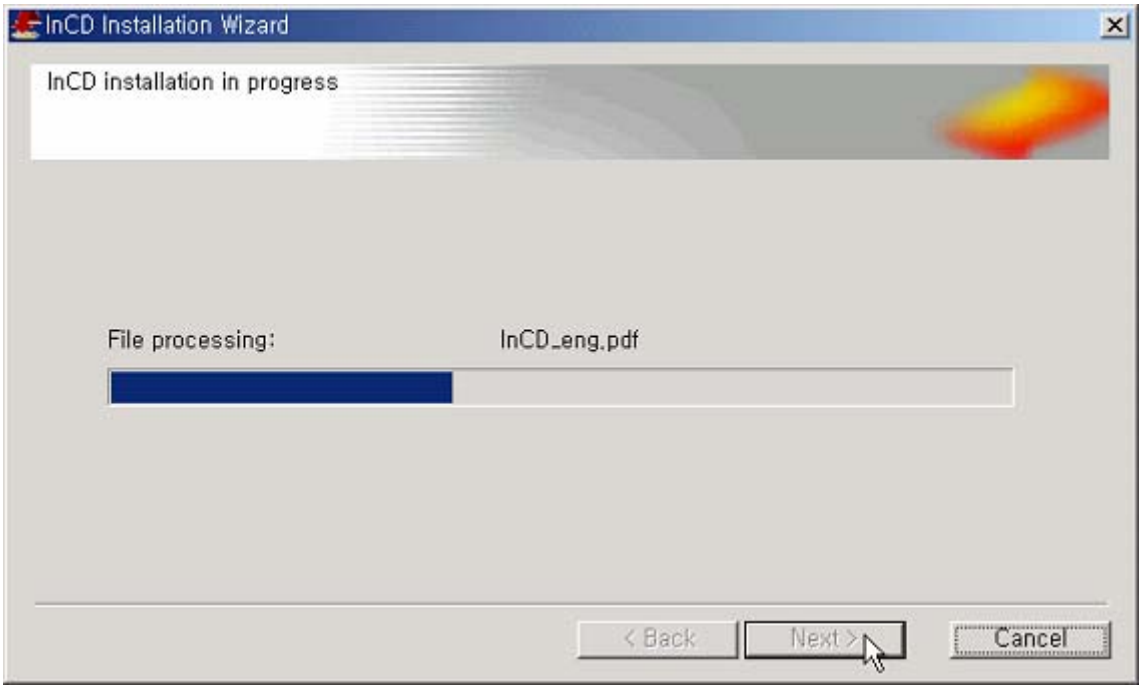

InCD Updater
InCD Update Wizard
Welcome to the Update Wizard for InCD
The Installation Wizard will allow you update or remove InCD from your computer. To continue, please click on the "Next" button.
< Back
Next >
Cancel

3) Check on “I accept all ……” and click “Next”.

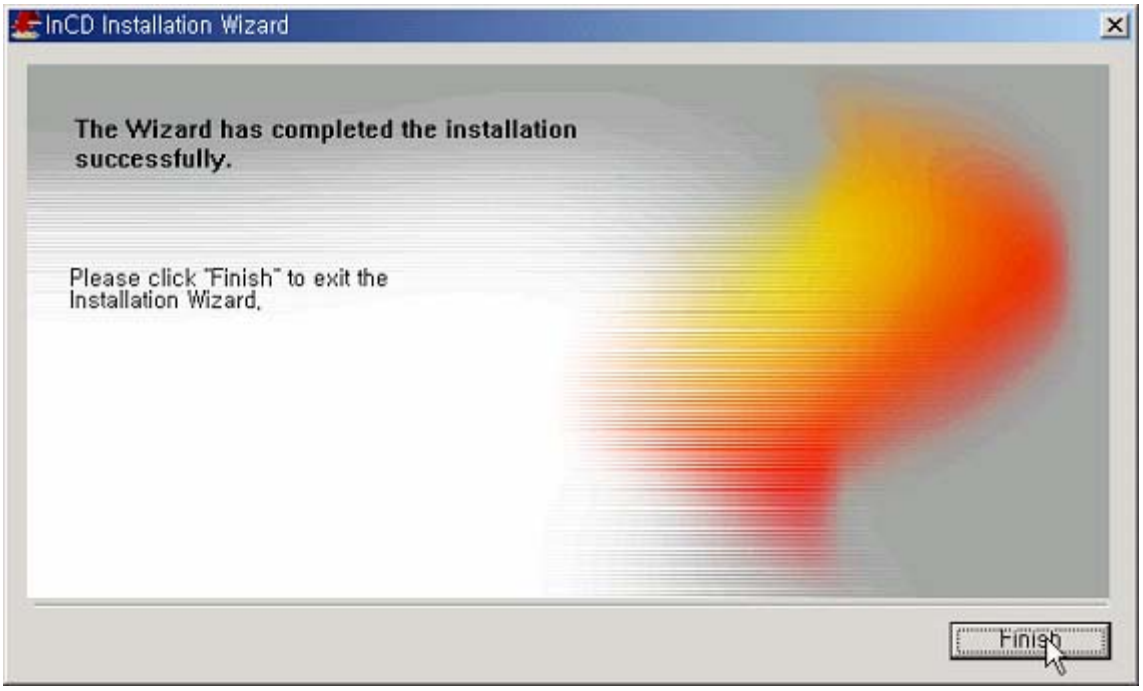

InCD Installation Wizard
License agreement.
Please read the following license agreement carefully
소프트웨어 사용자 계약서
소프트웨어 제품: Nero - Burning Rom, NeroMIX, InCD, NeroMAX 및/또는 Nero Express("소프트웨어"
사용권 허가자: Ahead Software AG("Ahead")
상기 Ahead Software와 체결하는 사용권 계약서 조항은 다음과 같이 그 소프트웨어의 구입처에 따라 달라
(1) Ahead OEM 파트너 또는
(2) Ahead 또는 Ahead 판매 대리점.
Fraunhofer IIS 및 Thomson Multimedia로부터 사용 허가를 받은 MPEG Layer-3 오디오 압축 기술.
A. OEM 파트너로부터 구입한 소프트웨어에 적용되는 사용권 약관
이 문건은 최종사용자인 사용자와 독일 Im Stoeckmaedle 18, 76307 Karlsbad 소재 Ahead Software AG(
동의하지 않는다면, 즉시 이 Ahead 소프트웨어와 동봉 품목(인쇄물 및 바인더 또는 기타 용기 포함)을 구
I. 사용권 부여
본 Ahead 사용권 계약서(사용권)는, 본 소프트웨어가 어느 때이든지 오직 한 대의 컴퓨터에서만 사용된다
사용권을 소유하고 있으면, 소유하고 있는 사용권 개수 만큼의 소프트웨어를 어느 때이든지 사용할 수 있
I accept all terms of the preceding License Agreement
I do not accept the terms of the preceding License Agreement
< Back
Next >
Cancel

4) Enter User name and Company name, and click “Next”.

5) The program is now being installed. Please wait until completion.



6) Now the installation has completed. Click “Finish”.


InCD Installation Wizard
The Wizard has completed the installation successfully.
Please click "Finish" to exit the Installation Wizard.
Finish

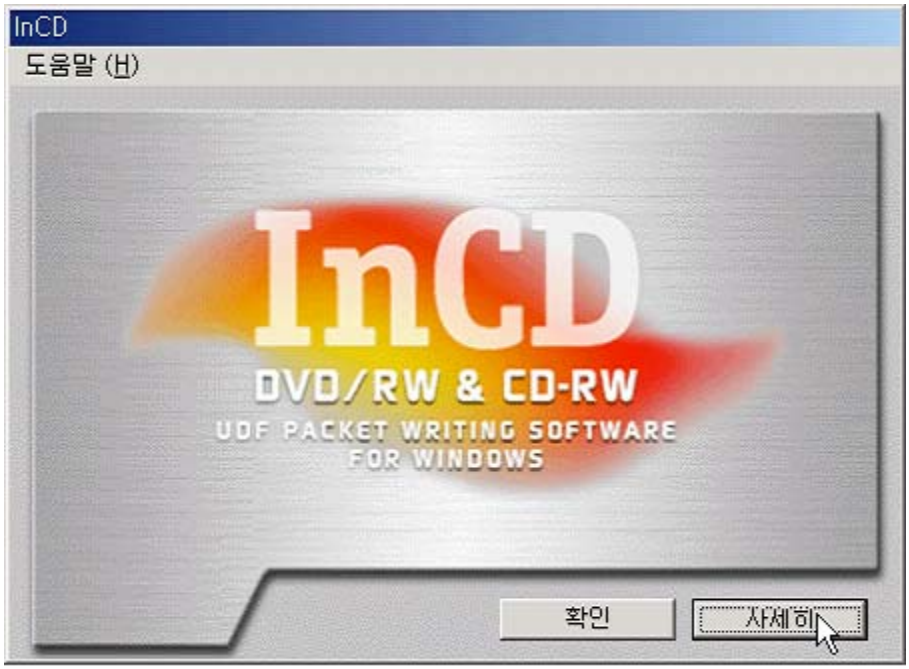
7) Click “Exit”.

8) Check on “Yes, ….”. Then system will reboot.

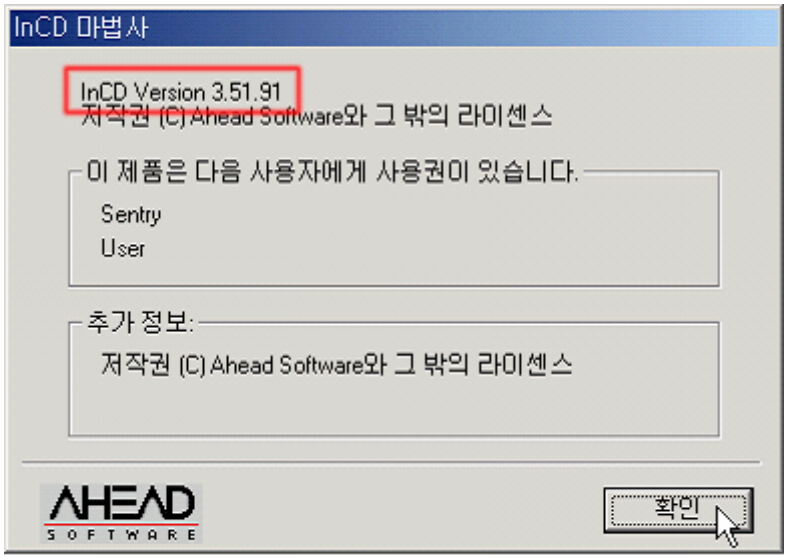
Setup Complete
Before you can use the program(s), you must restart Windows or your computer.
Yes, I want to restart my computer now.
No, I will restart my computer later.
OK

9) After system reboots, InCD icon will appear on system tray.

10) Right-mouse-click on InCD icon and click Version Info. Then click “Detail”.



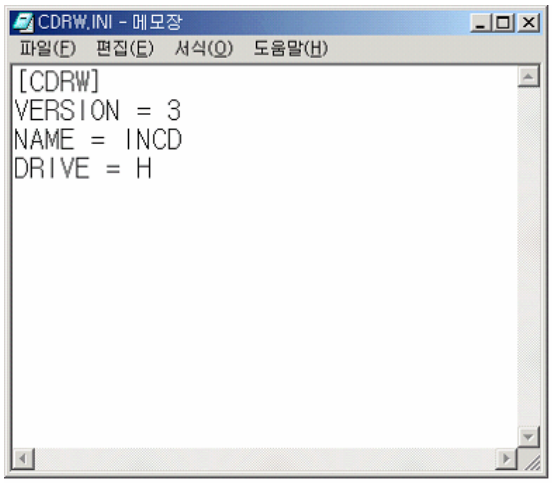
11) Please check the version of InCD.



3. CDRW.ini File

1) Please open provide CDRW.ini file using Note Pad. Enter the correct of information.

- VERSION : enter the current version. If it's 3.XX.XX, enter 3. Or if 4.XX.XX, enter 4.
- NAME : enter INCD if you use Nero, or DIRECTCD if your use Easy CD.
- DRIVE : enter the current drive.



2) Save the change. And copy CDRW.ini to C:\KOCOM-DVR.

4. Formatting the Media

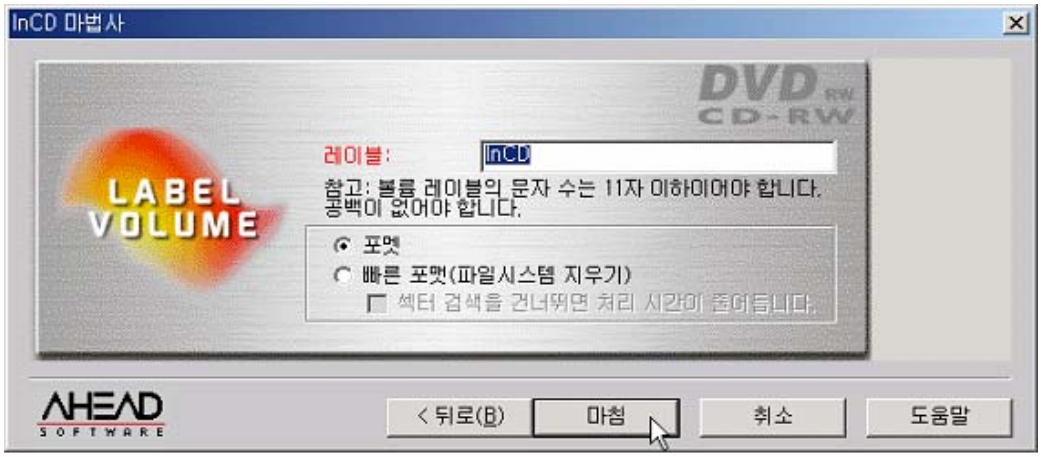
1) After inserting new media, InCD program will run automatically. Click “OK”.

2) Click “Next”.

3) Select RW drive and click “Next”.

4) Click “Next”.

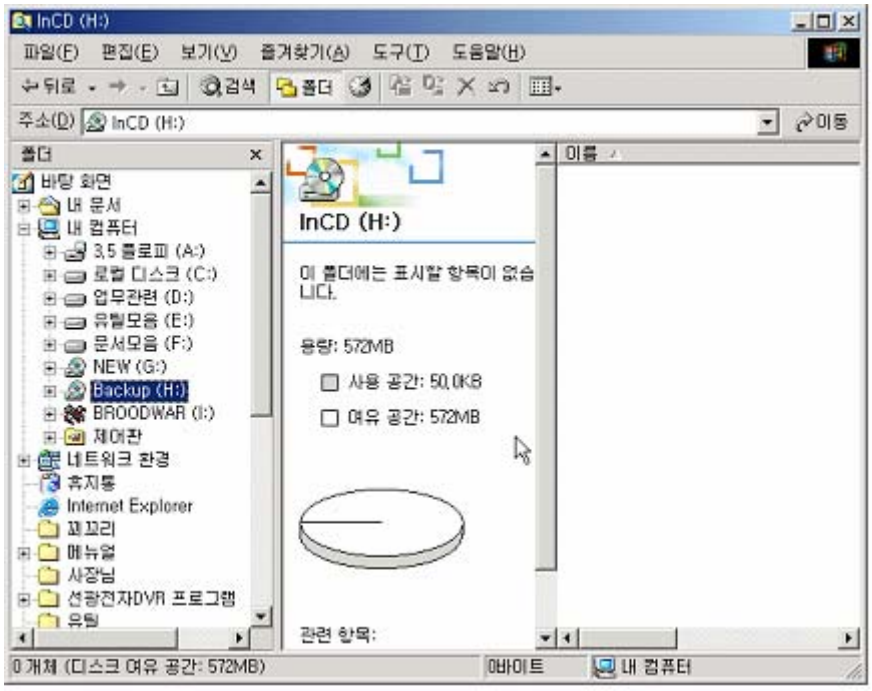
5) Select “Format” if the media is new.



6) Now the media is being formatted. Required time is 30 to 40 minutes. Do not eject CD while formatting.

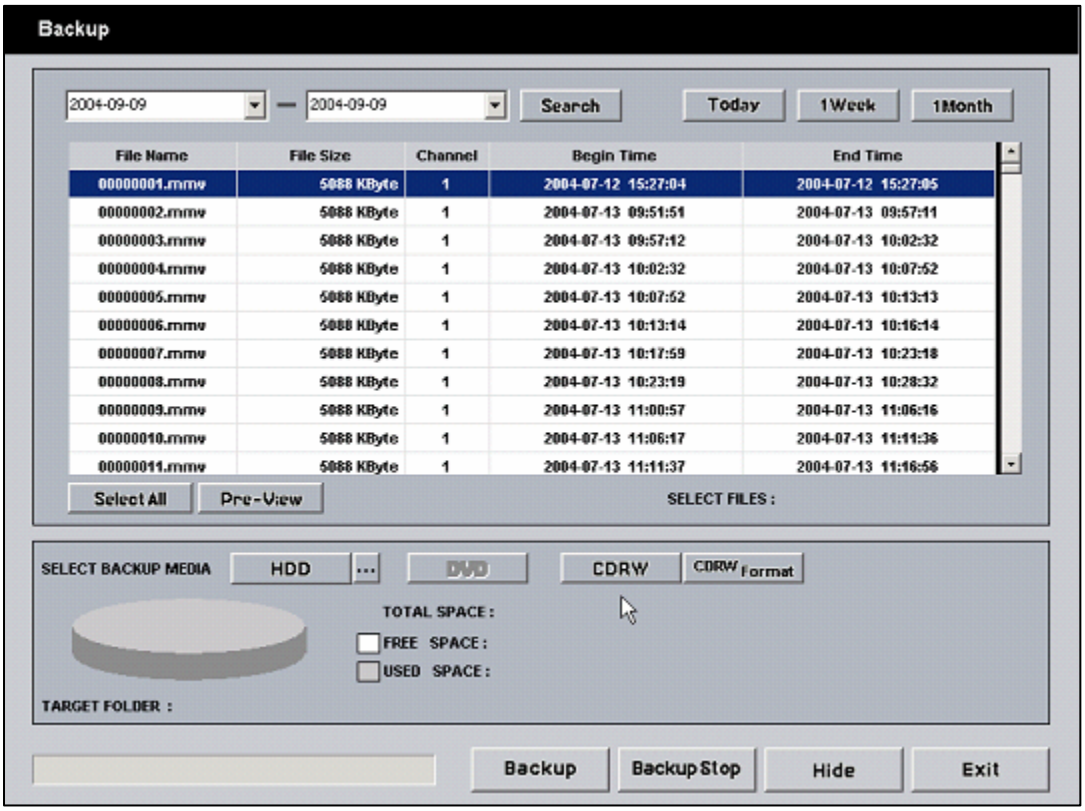
7) Format completes. Click “OK”.

8) Then you can check the free space of the media from Windows Explorer.

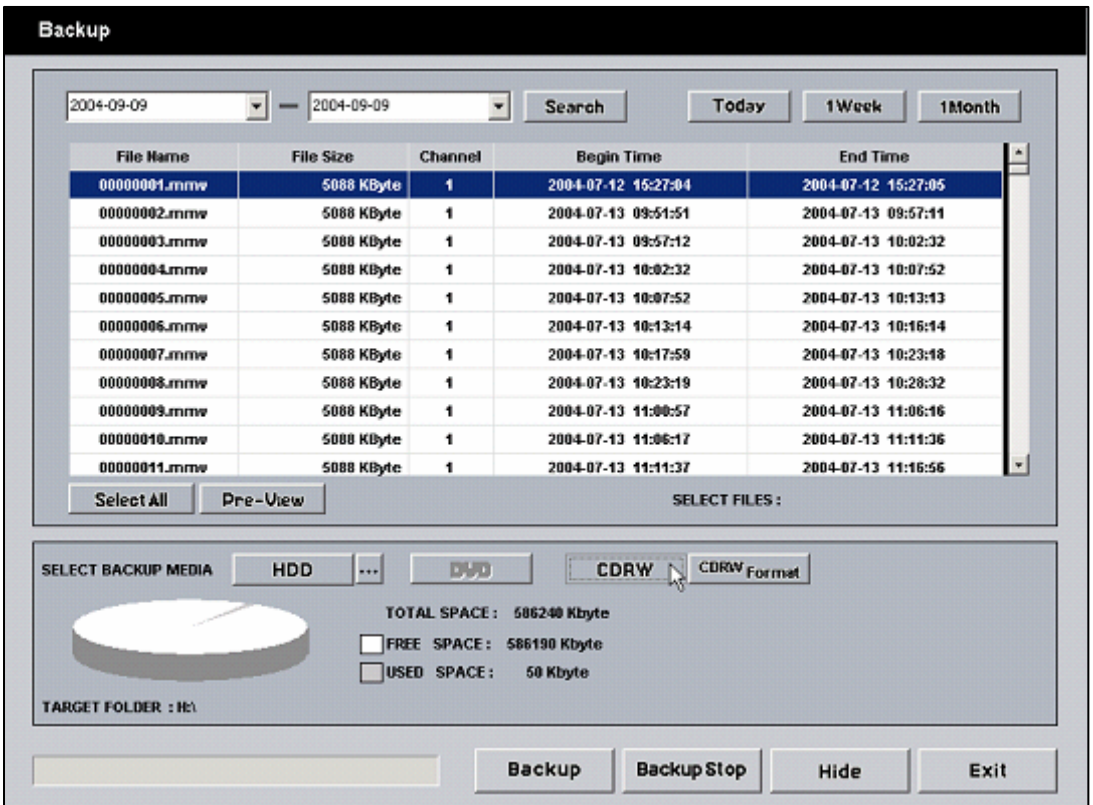


5. Back-up FROM KOCOM-DVR Backup

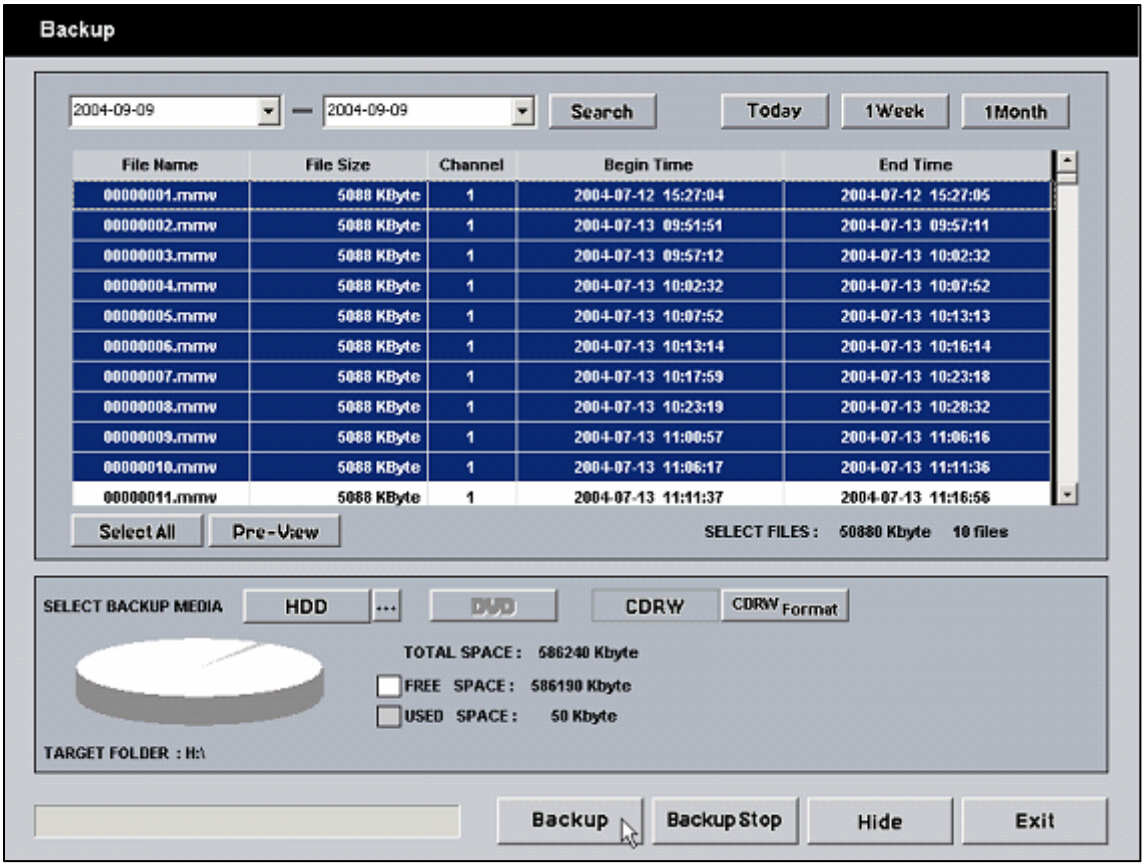
1) Run KOCOM-DVRBackup.exe from C:\KOCOM-DVR\Tools. Then the backup program will run.



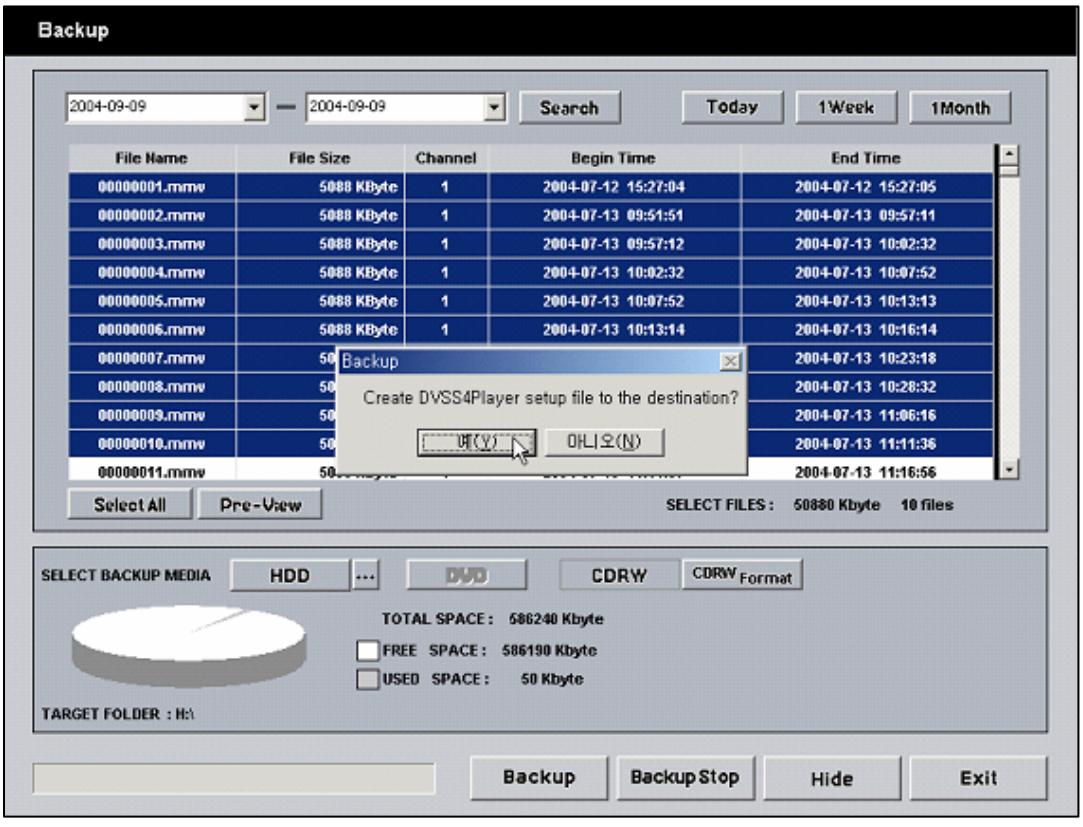
2) Press “CDRW” button.



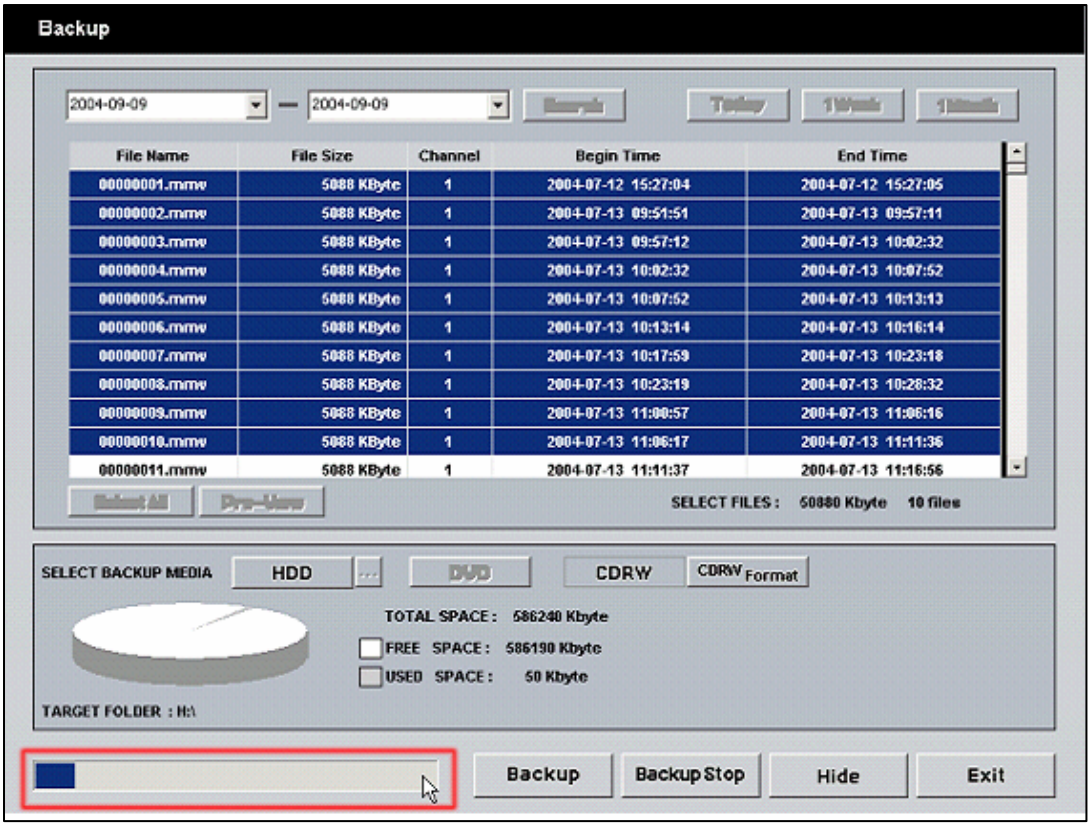
3) Select .mmv files to backup using drag & drop mouse or multiple selection with Ctrl or Shift key.



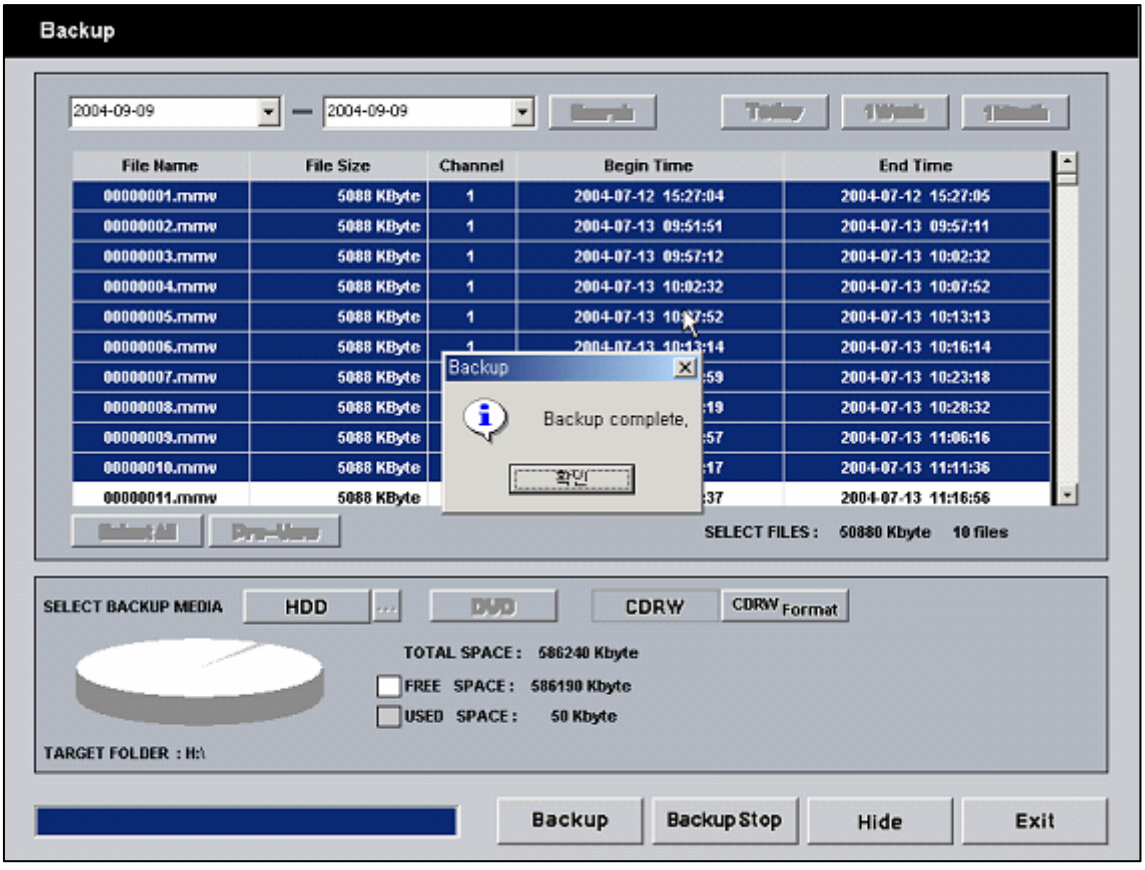
4) Press “Backup” and click “Yes” if you want to copy KOCOM-DVRPlayer setup file to the CD-RW.



5) Now backup is running.

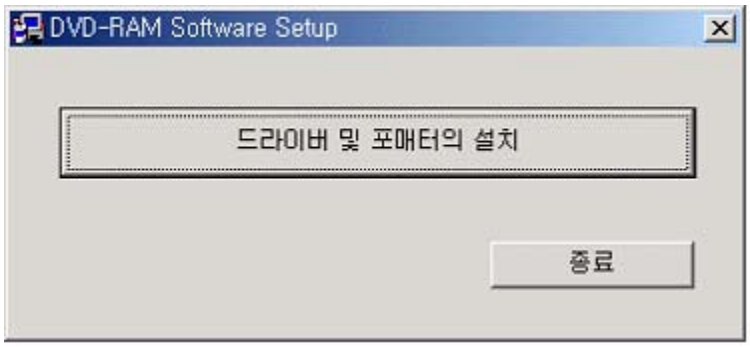


6) Backup will complete. Press “OK”.

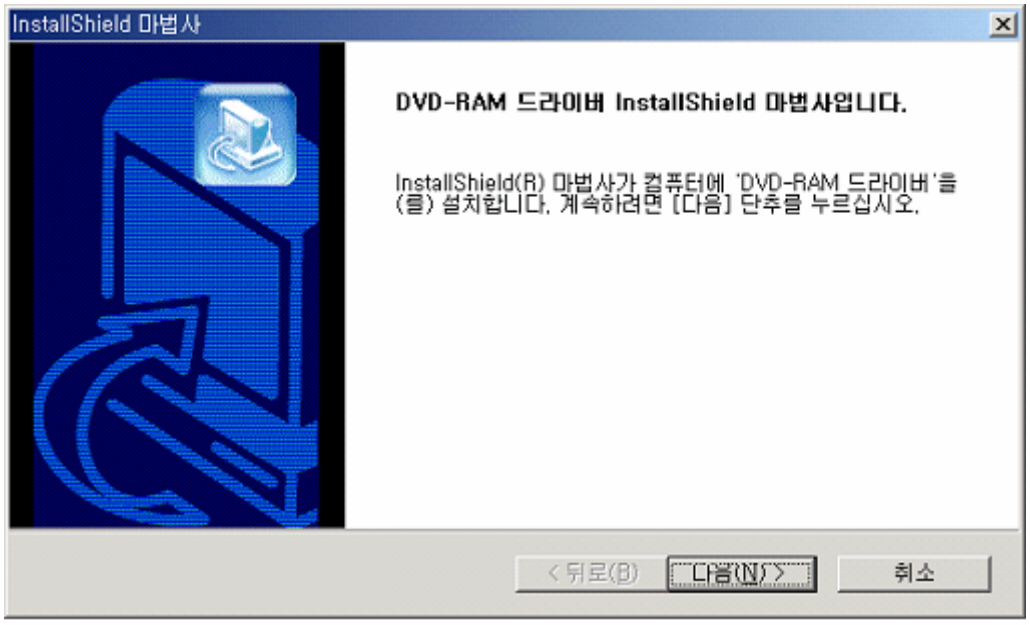


6. DVD-RW Program Installation and Backup

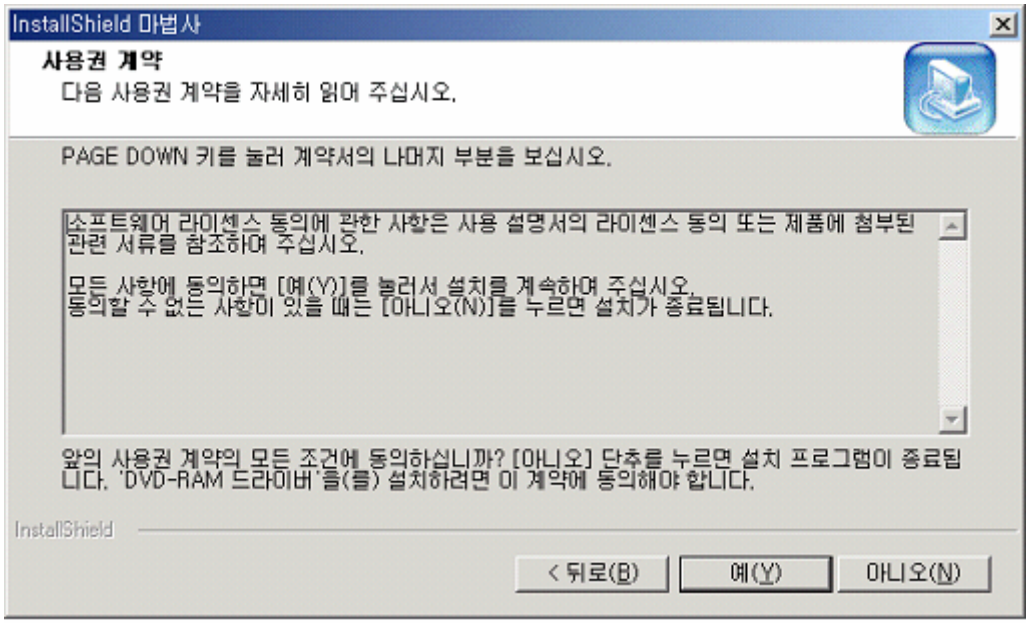
1) After inserting DVD program CD, the install program will run automatically. Press “Install” button.



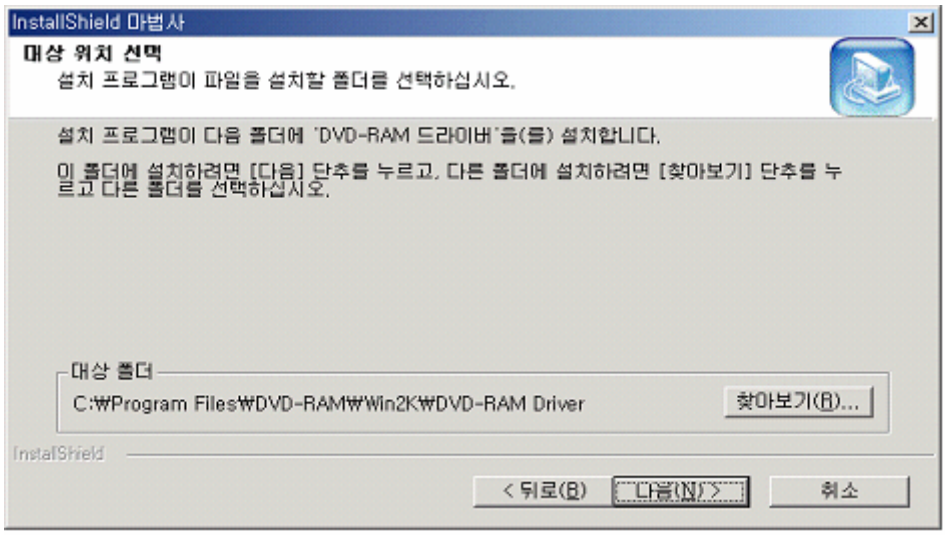
2) Click “Next”.



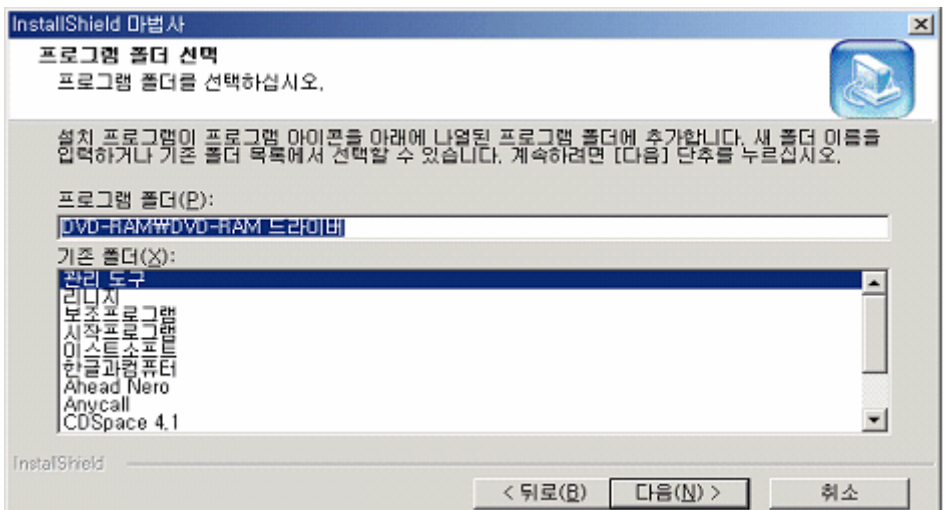
3) Click “Yes”.



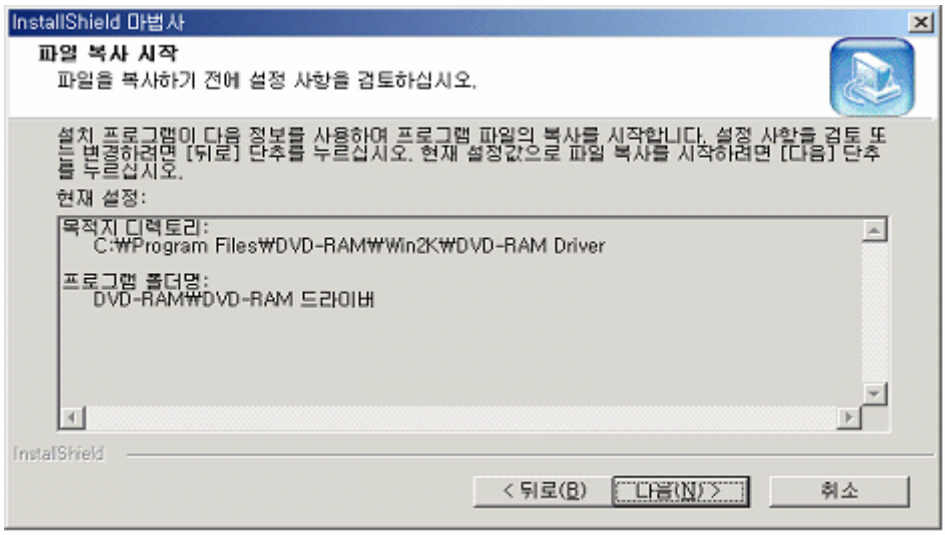
4) Click “Next”.



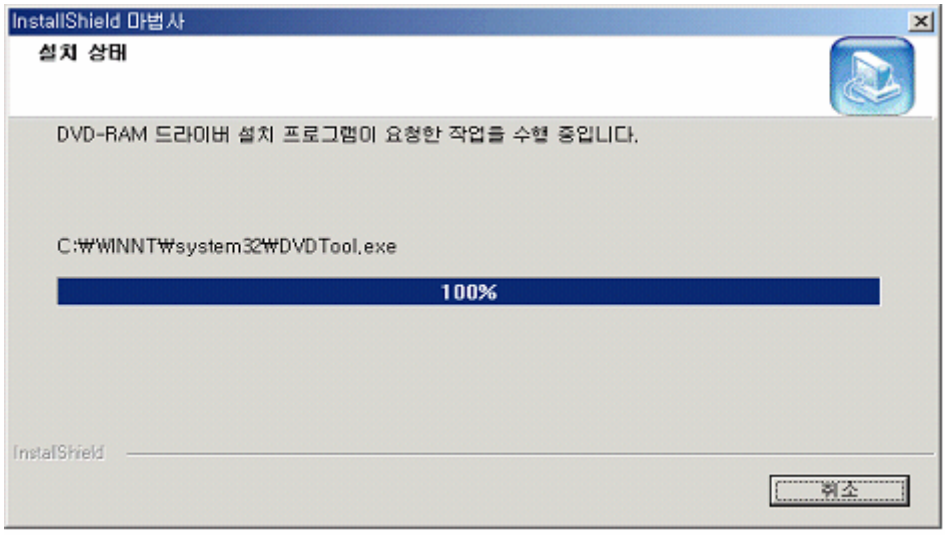
5) Click “Next”.



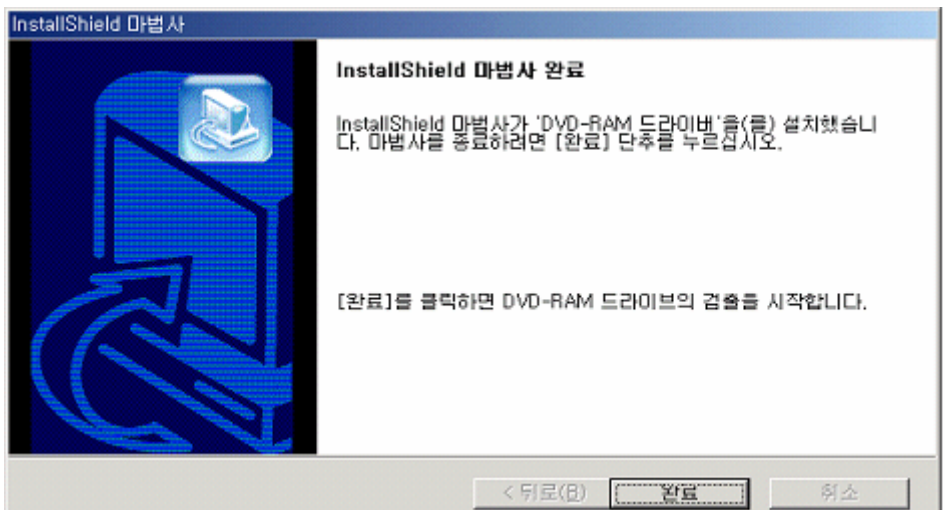
6) Click “Next”.



7) Now being install. Please wait until completion.



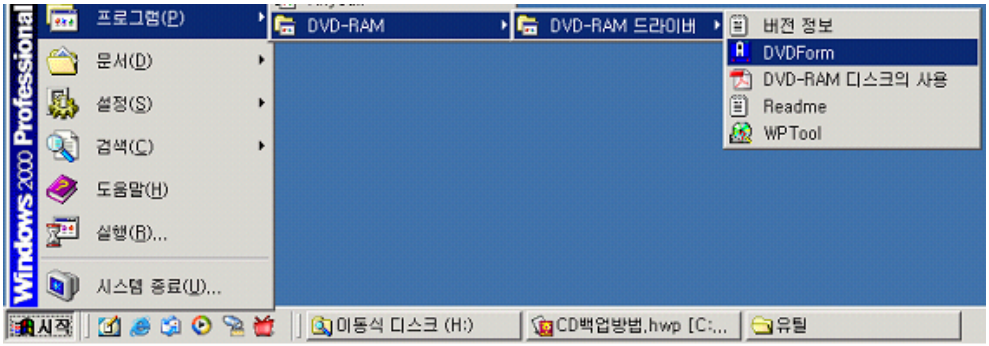
8) Click “Finish”.



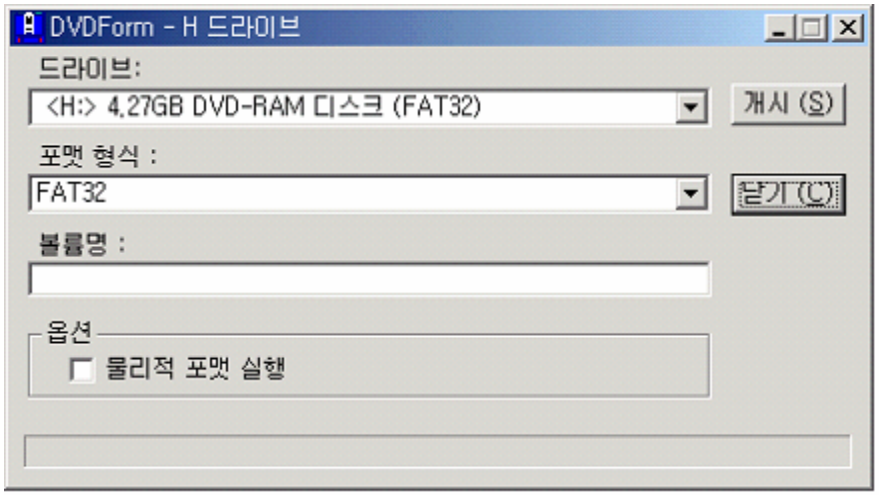
9) It will search for DVD-RAM Device. Then press “Yes”. System will reboot.

Detect DVD-RAM Devices
Detecting DVD-RAM Devices...
System Settings Changes
Windows 2000 has finished installing DVD-RAM Devices. You must restart your computer before the new settings will take effect.
Do you want restart your computer now?
예(Y)
아니오(N)

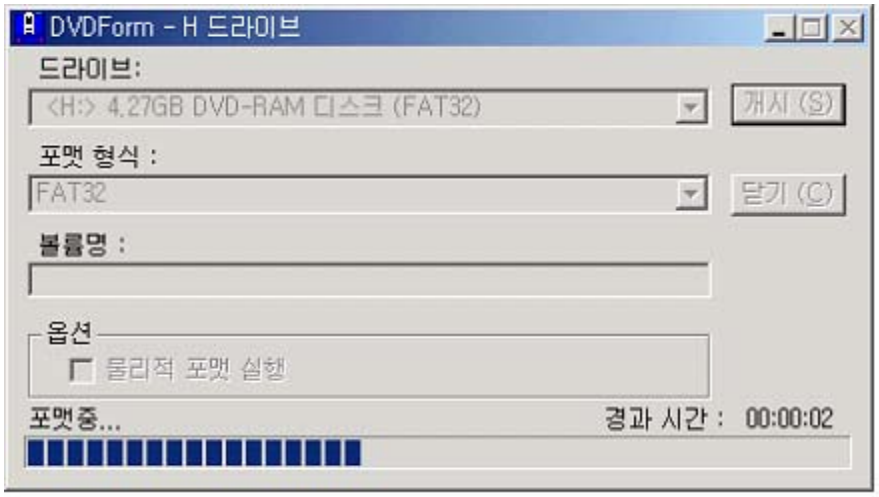
10) After reboot, check if DVDForm program appear.



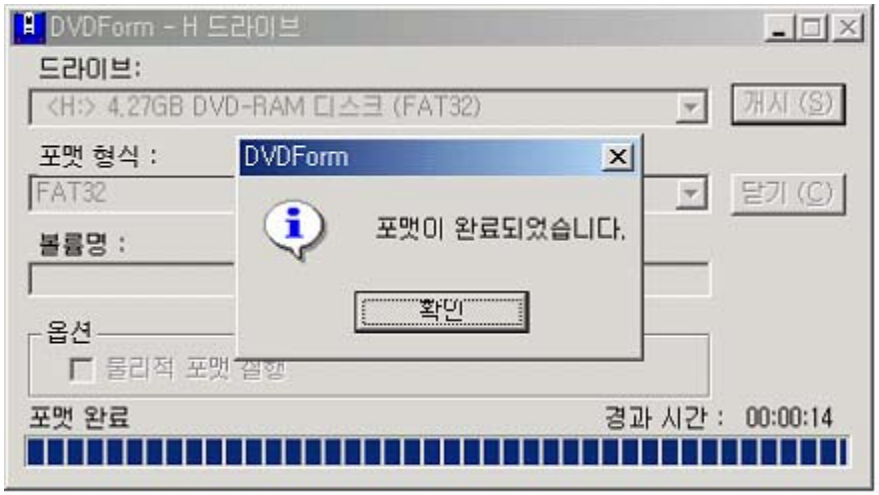
11) After running DVDForm program, press “Start” to start formatting if the media is new.



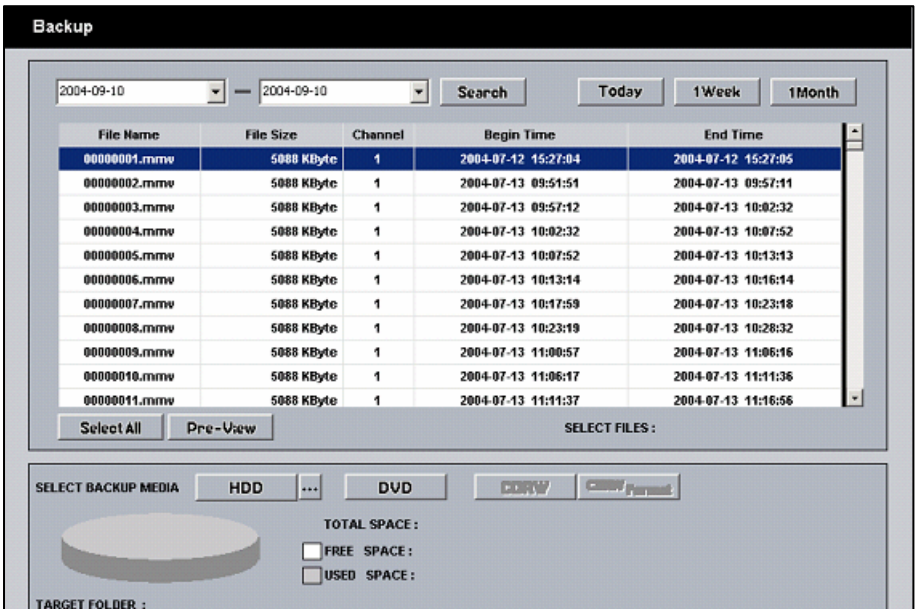
12) Now the format is on progress.



12) Format completes. Press “OK”.



13) The method of backup with DVD-RW is the same as with CD-RW. But no need for copying CDRW.INI to C:\KOCOM-DVR. Run KOCOM-DVRBackup.exe from C:\KOCOM-DVR\Tools. Then DVD button will activate when the formatted media is inserted.

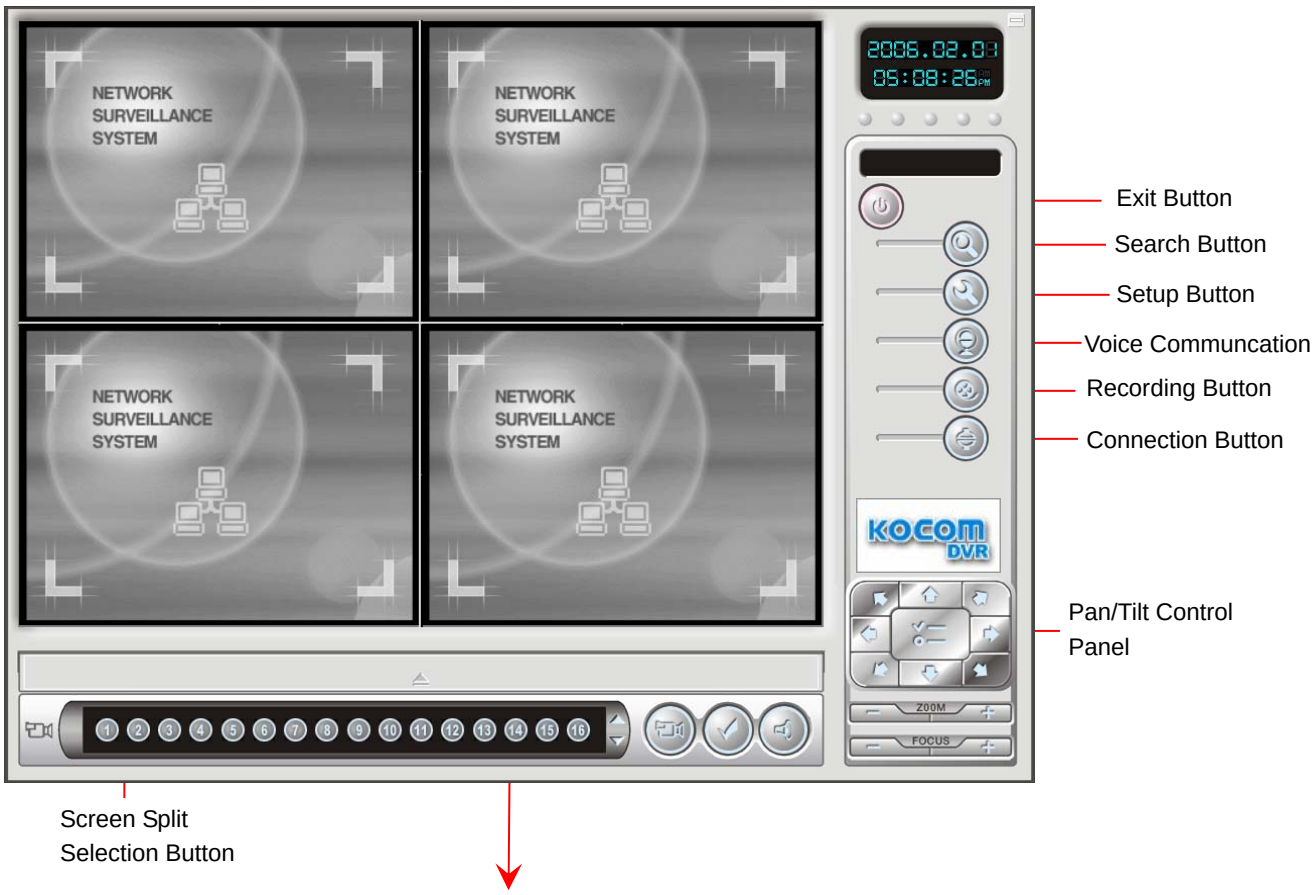


14) Press “DVD” button. Select .mmv files to backup and press “Backup” button.

Chapter 7
Network Function

7.1 Remote Client Program

You can view the images from remote site using Remote Client Program. First install Remote Client Program using setup file in the cd-rom provided. After the installation, run KOCOM-DVR Client.exe or KOCOM-DVR Client shortcut created on the desktop. Then the below display mode will come out.



▸ **Video Channel Selection ;** Select remote video channels to view on the selected screen division.

▸ **Video Channel ON/OFF ;** Select remote video channels to receive image. ON is filled with blue color. OFF is blank inside.

▸ **Audio Channel Selection ;** Select remote audio channels to listen. Blue-circled are availabe video channels mixed with sound. When selectd, the button will be filled with blue color. Only one audio channel can be selected.

7.2 Connecting From Remote Client Program

In order to server, just click CONNECTION BUTTON. Then the below dialog box will come out.

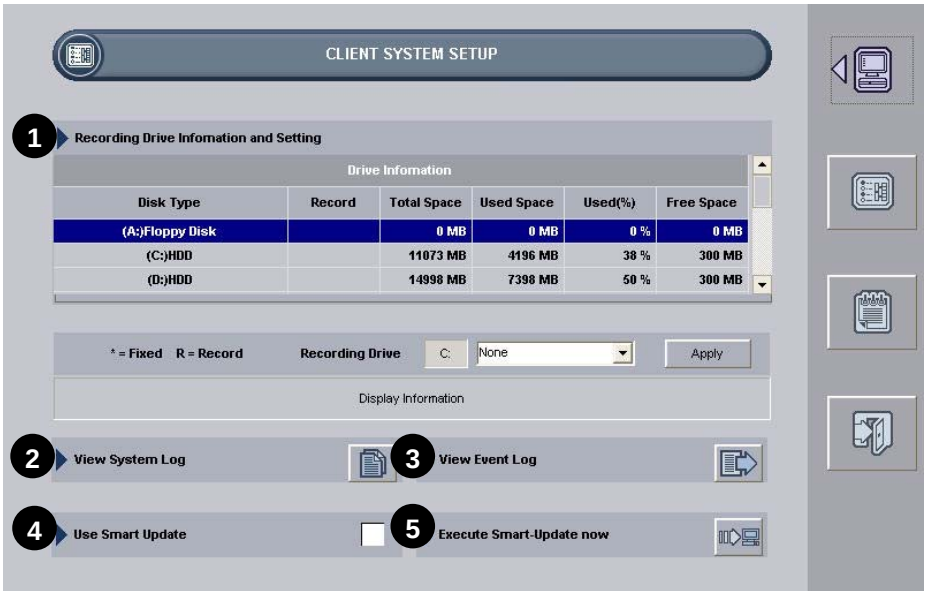
1. Select Server Name from the list.
2. Enter ID and Password, which should be registered on User Registeration Setup from server side.
3. Click connection button in order to connect.
4. Click cancel button to cancel.

☛ LAN check box from Network Setup on server side should be checked on to allow remote access.

☛ Please make sure that video port 8100 (if not changed from server side) is forwared to the DVR if it's behind router or firewall. And make sure to check on "Share IP" option so that server program can get correct global IP information.

☛ In order to view images through remote client, Direct X 8.1 or above should be installed on client PC.

7.3 Client System Setup

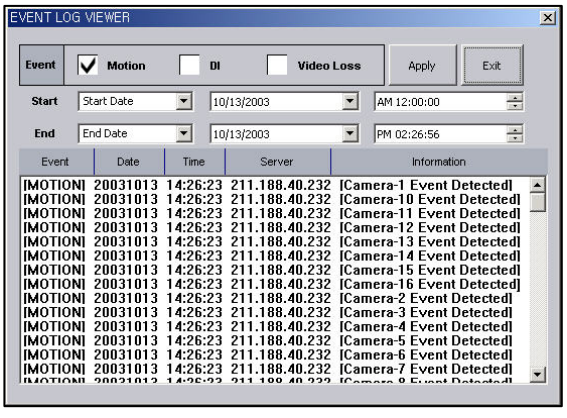


1. Recording Drive Information and Setting

   You can set the drive where real time images transferred from server are recorded.

2. View System Log : Displays the system log file.

3. View Event Log : Shows the below event history created from server side instantly

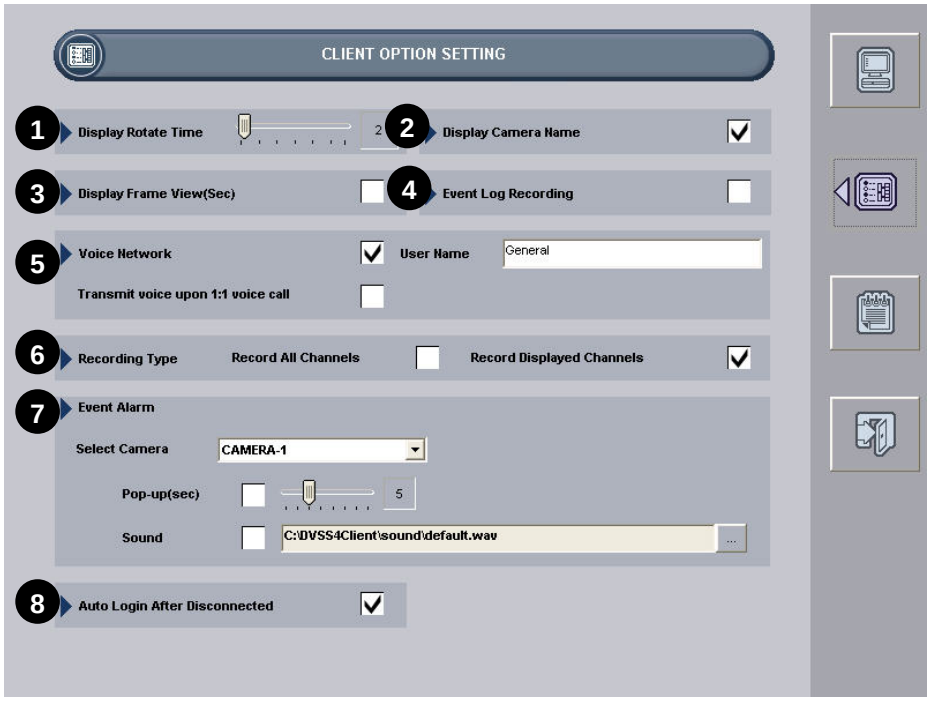


[Event Log Viewer]

4. Use Smar Update : Check on to run Smart Update upon start-up of KOCOM-DVR Client

5. Execute Smart Update Now : Click the button to run Smart Update now

7.4 Client Option Setting



1. Dislay Rotation Time : Set the time interval between each screen when auto switching mode (1 – 30 seconds)
2. Display Camera Name : Shows the camera name on the camera view
3. Display Frame View : Shows the frame rate on the camera view
4. Event Log Recording : Records the event history created from server side on the log file
   (The event histories are recorded in C:\KOCOM-DVRClient\LogFile named like Event2003XXXX.log)
5. Check on Voice Network to enable Voice Communication with server and enter the name desired
6. Recording Type : Check on one of two options
7. Event Alarm : Makes the selected one channel to pop up in full screen for given time or makes beep alarm, when motion event happens from selected remote channel.
   - Select Camera : select one channel to pop up when triggered by motion
   - Pop-up (Sec) : select the time to maintain pop-up (3~10 seconds)
   - Sound : send beep alarm through PC speaker on the remote client.

☛ To enable motion event pop-up or beep alarm, motion recording mode should be set from remote DVR.

8. Auto Login After Disconnected : Connects again to remote DVR automatically after disconnection.

7.5 Registering Server List

☛ Refer to 5.6 Netwrok Setup about the procedure of registering Dynamic DNS ID.

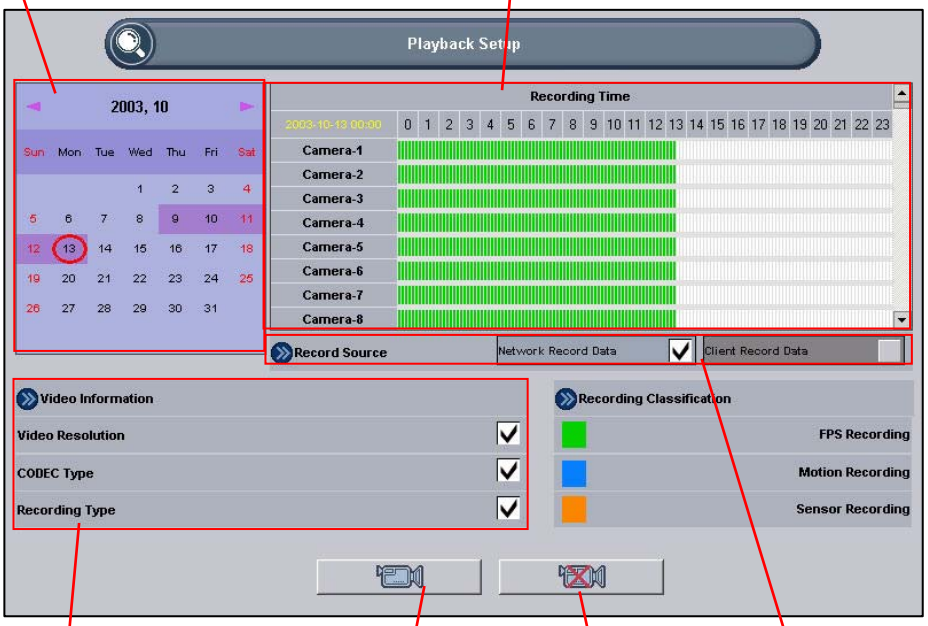
☛ You check video, audio and voice port no. from server side Network Setup if changed from the default.

7.6 Viewing Remote Recordings

In order to view remote recordings, just click SEARCH BUTTON. Then the below dialog box will come out. Select date & time. Then click OK to continue remote playback.

1. Date Selection Menu
The date having recording is displayed colored. Click the date that you want to search from.

2. Search Time
The time having recording is displayed colored (FPS:Green, Motion:Blue, Alarm-In:Orange). Move the red bar to the time that you want to play.



3. Video Information
Check on each to displayed resoultion, codec type or recording type on recording images.

5. OK
Click to play selected images.

6. Cancel

4. Record Source
Select one of Network Record Data Or Client Record Data

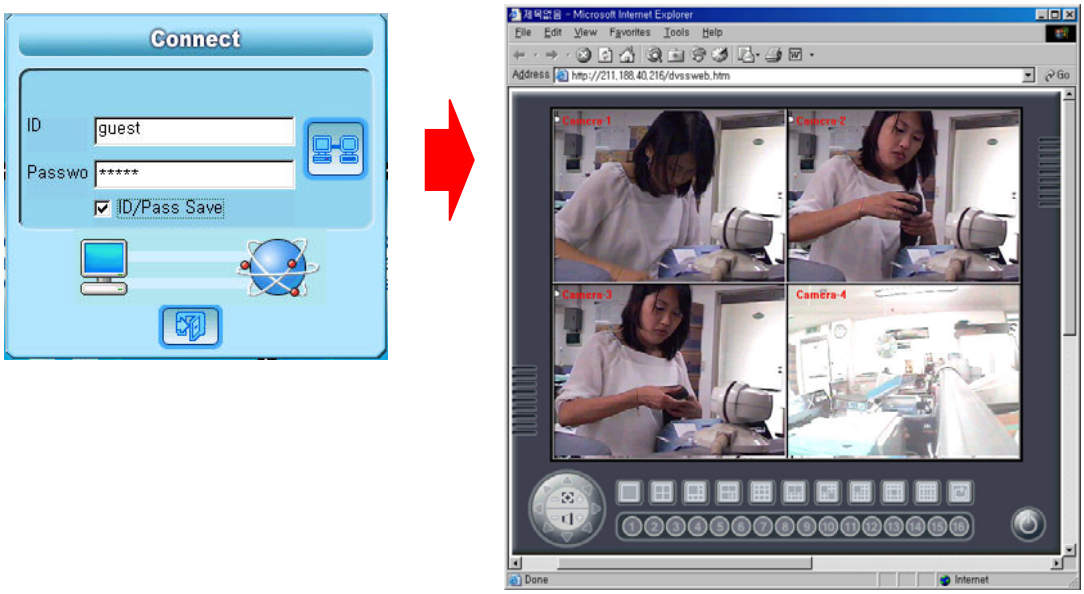
Upon pressing OK button, the search interface will run.

7.7 Viewing Through Web Browser

Type IP address of the remote DVR or http://godvr.net/DDNS ID from web brower. Press “Enter”.

Ex) If IP address is 211.211.204.205, URL is http://211.211.204.205. If DDNS ID is dvr, URL is http://godvr.net/dvr.

Enter ID/PW from the dialog box. Press Connect button. Then web client page will show up.



☛ LAN and WEB check box from Network Setup on server side should be checked on to allow web client access.

☛ Please make sure that video port 8100 and web port 80 (if not changed from server side) are forwared to the DVR if it’s behind router or firewall. And make sure to check on “Share IP” option so that server program can get correct global IP information.

☛ In order to view images through web brower, Direct X 8.1 or above should be installed on client PC.

☛ **When ActiveX download is blocked from Win XP SP2, please follow the below steps.**

1. Open Internet Properties. And press "Custem Level" from "Security" tab.
2. Check on "Prompt" under "Download unsigned ActiveX controls". Press OK. And press OK from Internet Properties.
3. Then prompt window will be shown to ask if users wants to download ActiveX controls for running web client.